Pioneer sound.vision.soul

English

Operation Manual

Navigation CD Tuner with MP3

ANH-P10MP

Before using navigation
Before using the navigation, perform calibration and language definition referring to the “Installation Manual”.

Contents

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.

The screen shown in the example may differ from the actual screen.
The actual screen may be changed without notice for performance and function improvements.

01 Before You Start

Licence Agreement **7**
- PIONEER ANH-P10MP **7**

Important Safety Information **9**
About this product **9**
About the multi language display **10**
About this manual **10**
Precautions **10**
- Handbrake interlock **10**

In case of trouble **10**
Features **11**
About WMA **11**
About navigation CD **11**
Update CD-ROM **11**
Protecting your unit from theft **12**
- Removing the front panel **12**
- Attaching the front panel **12**

About the demo mode **12**
- Reverse mode **12**
- Feature demo **12**

Resetting the Microprocessor **13**
What's What **14**
- Navigation unit **14**
- Optional remote control **15**

Using navigation **16**
Playing an audio CD **17**
Using navigation and audio sources simultaneously **19**
- On the audio screen **19**
- On the navigation screen **19**

SOFT KEY operation **19**

02 Navigation

Safety instructions **20**
Digitised area **20**
Basic operation for navigation **20**
- Displaying the Navigation screen **20**
- Main navigation menu **21**
- Entering texts **21**
- When a list appears **22**

Entering the destination information **23**
- Displaying the destination menu **23**
- Selecting a country **23**
- Entering the place-name for your destination **24**
- Entering the road name **24**
- Selecting the city or town centre as the destination **25**
- Selecting a special destination as destination **25**
- Selecting a destination from the memory **26**
- Entering post code for the destination **27**
- Entering longitude and latitude of the destination **27**

Setting the route **28**
- Route menu **28**
- Entering the house number for the destination **29**
- Selecting the intersection for the destination **29**
- Specifying the route calculation conditions **29**
- Specifying the types of road **30**

Route guidance **31**
- Calculating the route **31**
- Screen during route guidance **32**
- Example of navigation by displays on the screen and voice messages **33**
- Dynamic navigation with TMC **34**

– Hearing the current guidance again **35**
– Selecting route guidance via display only **35**
– Displaying the direction of travel **35**
– Adjusting the sound level of navigation announcement **35**
– Cancelling route guidance **35**

Viewing information during route guidance **36**
– Displaying information menu **36**
– Requesting current position **36**
– Requesting the road list **36**

Using traffic information **37**

Avoiding a traffic jam **38**
– Entering the length of the bypass **38**
– Delete bypass **38**

Stopover **38**
– Entering a stopover **38**
– Deleting a stopover **39**

Storing a specified destination in the destination memory **39**
– Storing in the destination memory **39**
– Deleting stored destinations **40**

System settings for navigation **40**
– Displaying system settings menu **40**
– Setting the time **41**
– Saving the position **41**
– Setting the language for navigation **42**
– Selecting the measuring unit **42**
– Switching announcement of the estimated time of arrival on/off **42**
– Average speed **43**
– Displaying the speed limits **43**

03 Using Audio Source

Turning source on or off, and selecting a source **44**
– Example of multi-function button operation **44**

Key guidance indicator **45**
– Switching the function of the multi-function buttons **45**

The difference between the BAND/ESC button and the BACK button **46**
– Display example (e.g., Audio menu) **46**

04 Tuner

Listening to the radio **47**

Operation **47**

Advanced tuner operation **48**
– Tuner function menu **48**

Storing and recalling broadcast frequencies **48**

Tuning in strong signals **49**

Storing the strongest broadcast frequencies **49**

05 RDS

Using RDS **50**
– RDS tuner function menu **50**

Switching the RDS display **51**

Selecting alternative frequencies **51**
– Using PI Seek **51**
– Using Auto PI Seek for preset stations **52**
– Limiting stations to regional programming **52**

Receiving traffic announcements **52**

Using PTY functions **53**
– Searching for an RDS station by PTY information **53**
– Using news programme interruption **53**
– Receiving PTY alarm broadcasts **53**

Using radio text **54**
– Displaying radio text **54**
– Storing and recalling radio text **54**

PTY list **55**

Contents

06 Built-in CD Player
- Playing a disc **56**
- Advanced built-in CD player operation **57**
  - – Function menu **57**
- Repeating play **58**
- Playing tracks in a random order **58**
- Scanning tracks of a CD **58**
- Selecting tracks from the track title list **59**
- Pausing CD playback **59**
- Using compression and BMX **59**
- Selecting the search method **60**
- Searching every 10 track in the current disc **60**
- Using disc title functions **60**
  - – Entering disc titles **60**
  - – Switching and scrolling the title **61**

07 MP3/WMA/WAV Player
- Playing MP3/WMA/WAV **62**
- Advanced built-in CD player (MP3/WMA/WAV) operation **64**
  - – MP3/WMA/WAV function menu **64**
- Repeating play **64**
- Playing tracks in a random order **65**
- Scanning folders and tracks **65**
- Selecting files from the folder/file name list **65**
- Pausing MP3/WMA/WAV playback **66**
- Using compression and BMX **66**
- Selecting the search method **66**
- Searching every 10 track in the current folder **67**
- Switching and scrolling the title **67**
- Switching the tag display **68**

08 Multi-CD Player
- Playing a CD **69**
- Selecting a disc directly **70**
- 50-disc multi-CD player **70**
- Advanced multi-CD player operation **70**
  - – Multi-CD player function menu **70**
- Repeating play **71**
- Playing tracks in a random order **71**
- Scanning CDs and tracks **71**
- Selecting tracks from the track title list **72**
- Selecting discs from the disc title list **72**
- Pausing CD playback **73**
- Using disc title functions **73**
  - – Entering disc titles **73**
  - – Switching and scrolling the title **74**
- Using compression and bass emphasis **74**
- Using ITS playlists **75**
  - – Creating a playlist with ITS programming **75**
  - – Playback from your ITS playlist **75**
  - – Erasing a track from your ITS playlist **75**
  - – Erasing a CD from your ITS playlist **76**

09 DAB Tuner
- Listening to the DAB **77**
  - – Operation **77**
- Storing and recalling the service **78**
- Changing the label **78**
- Receiving the road traffic flash and transport flash **78**
- Receiving news flash **78**
- Using dynamic label **78**
  - – Displaying dynamic label **79**
  - – Storing and recalling dynamic label **79**
- Advanced DAB tuner operation **79**
  - – DAB tuner function menu **79**
- Setting the announcement support interruption **80**
- Switching the service follow **80**
- Switching primary or secondary service component **80**
- Searching for service by available PTY information **80**

Selecting services from the preset service list **81**
Selecting services from the available service list **81**

10 TV Tuner
Using the TV tuner **82**
– Operation **82**
Storing and recalling broadcast stations **82**
Advanced TV tuner operation **83**
– TV tuner function menu **83**
Storing the strongest broadcast stations sequentially **83**
Selecting channels from the preset channel list **83**

11 Audio Adjustments
Using the equaliser **84**
– Recalling equaliser curves **84**
Introduction of audio adjustments **84**
– Audio menu **84**
– Compensating for equaliser curves (EQ-EX) **85**
– Setting the sound focus equaliser (SFEQ) **85**
– Adjusting equaliser curves **86**
Using balance adjustment **86**
Adjusting bass and treble **87**
– Using bass adjustment **87**
– Using treble adjustment **87**
Using loudness adjustment **87**
Using subwoofer output **88**
– Adjusting subwoofer settings **88**
Using nonfading output **88**
– Adjusting nonfading output level **89**
Using the high pass filter **89**
Adjusting source levels **89**
Using automatic sound leveliser **90**
– Adjusting ASL for audio volume **90**
– Adjusting ASL for guidance volume **90**

12 Initial Settings
Adjusting initial settings **91**
– Initial settings menu operation **91**
Using the reverse mode **91**
Using the feature demo **92**
Switching the auxiliary setting **92**
Switching the guide animation setting **92**
Switching the muting/attenuation setting **92**
Selecting the display language **93**
Setting the FM tuning step **93**
Setting the Guide Select **93**
Switching the guidance display for intersection **94**
Setting the rear output and subwoofer controller **94**
Selecting the illumination colour **95**
Switching the auto PI seek **95**
Switching the hands free telephoning **95**
Switching the telephone standby **96**
Switching the Ever-scroll **96**

13 Other Functions
Attenuating audio volume **97**
Displaying the clock **97**
– Setting the time display on or off **97**
– Off clock display **97**
Adjusting the brightness **97**
Switching the dimmer setting **97**
Selecting the wall paper pattern **98**
Using the AUX source **98**
– Selecting AUX as the source **98**
– Setting the AUX title **98**
Using different entertainment displays **98**
Using the muting/attenuation and hands free telephoning function **99**
– Navigation guidance muting/attenuation function **99**
– Muting/attenuation function **99**
– Hands free telephoning function **99**

Additional Information
Understanding built-in CD player error messages **100**
CD player and care **100**
CD-R/CD-RW discs **101**
MP3, WMA and WAV files **101**
– MP3 additional information **102**
– WMA additional information **102**
– WAV additional information **102**
About folders and MP3/WMA/WAV files **103**
Terms **104**
About traffic information (RDS-TMC) **105**
Copyright **106**
Specifications **107**

English

Licence Agreement

PIONEER ANH-P10MP

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Important Safety Information

Before using your Navigation System, be sure to read and fully understand the following safety information:

- Read the entire manual before operating this Navigation System.
- The navigation features of this unit is intended solely as an aid to you in the operation of your vehicle. It is not a substitute for your attentiveness, judgement, and care when driving.
- Do not operate this Navigation System if doing so in any way will divert your attention from the safe operation of your vehicle. Always observe safe driving rules and follow all existing traffic regulations. If you experience difficulty in operating the system or reading the display, park your vehicle in a safe location and make necessary adjustments.
- Never allow others to use the system unless they have read and understood the operating instructions.
- Never use this Navigation System to route to hospitals, police stations, or similar facilities in an emergency. Please call the appropriate emergency number.
- Route and guidance information displayed by this equipment is for reference purposes only. It may not accurately reflect the latest permissible routes, road conditions, one way streets, road closures, or traffic restrictions.
- Traffic restrictions and advisories currently in force should always take precedence over guidance given by this product. Always obey current traffic restrictions, even if this product provides contrary advice.
- Failure to input correct information about the local time may result in the product providing improper routing and guidance instructions.
- Never set the volume of your Navigation System so high that you cannot hear outside traffic and emergency vehicles.
- To promote safety, certain functions are disabled unless the handbrake is on.
- The data encoded in the disc for this product is the intellectual property of the provider, and the provider is responsible for such content.
- Keep this manual handy as a reference for operating procedures and safety information.
- Pay close attention to all warnings in this manual and follow the instructions carefully.
- Do not install this product where it may (i) obstruct the driver's vision, (ii) impair the performance of any of the vehicle's operating systems or safety features, including air bags, hazard lamp buttons or (iii) impair the driver's ability to safely operate the vehicle.
- Do not attempt to install or service this product by yourself. Installation or servicing of this product by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards.
- Please remember to wear your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.
- Using the most current map CD-ROMs will allow for most accurate destination mapping. Update CD-ROMs are available through your local Pioneer dealer.
- Never use headphones while driving. ▣

About this product

This product does not work correctly in areas other than Europe. The RDS function operates only in areas with FM stations broadcasting RDS signals. ▣

About the multi language display

This product allows you to select the OEL display language. (You can set different languages for navigation function and audio function.) Refer to *Setting the language for navigation* on page 42 and *Selecting the display language* on page 93 for how it set it. This manual uses English displays in the explanations for audio source. ▣

About this manual

This product features a number of sophisticated functions ensuring superior reception and operation. All the functions have been designed for the easiest possible use, but many are not self-explanatory. This operation manual will help you benefit fully from this product's potential and to maximise your listening enjoyment.
We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using this product. It is especially important that you read and observe precautions on this page and in other sections. ▣

Precautions

- A CLASS 1 LASER PRODUCT label is affixed to the bottom of this product.

- The Pioneer CarStereo-Pass is for use only in Germany.
- Protect this product from moisture.
- If the battery is disconnected or discharged, the preset memory will be erased and must be reprogrammed.

When the auto aerial function is used by connecting the blue/white lead to the vehicle with the auto aerial function, either turning off the ignition switch or detaching the front panel will retract the auto aerial of the vehicle.

Handbrake interlock

Certain functions offered by this Navigation System could be dangerous if used while driving. To prevent them being used while in motion, there is an interlock with your vehicle's handbrake. If you attempt to use these functions during driving, they may be inoperable. If so, stop in a safe place, apply the handbrake, then operate. ▣

In case of trouble

Should this product fail to operate properly, contact your dealer or nearest authorised Pioneer Service Station. ▣

Features

Navigation

You can specify the destination to which you wish to navigate to.

CD playback

Music CD/CD-R/CD-RW playback is possible.

MP3 file playback

You can play back MP3 files recorded on CD-ROM/CD-R/CD-RW (ISO9660 Level 1/Level 2 standard recordings).

- Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generating) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit http://www.mp3licensing.com.

WMA file playback

You can play back WMA files recorded on CD-ROM/CD-R/CD-RW (ISO9660 Level 1/Level 2 standard recordings).

WAV file playback

You can play back WAV files recorded on CD-ROM/CD-R/CD-RW (Linear PCM (LPCM)/MS ADPCM recordings). ▣

About WMA

The Windows Media™ logo printed on the box indicates that this product can play back WMA data.
WMA is short for Windows Media Audio and refers to an audio compression technology that is developed by Microsoft Corporation.
WMA data can be encoded by using Windows Media Player version 7 or later.
Microsoft, Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Notes

- With some applications used to encode WMA files, this product may not operate correctly.
- With some applications used to encode WMA files, album names and other text information may not be correctly displayed. ▣

About navigation CD

You can use discs intended for this product. Use only discs approved by Pioneer. ▣

Update CD-ROM

Updated Navigation CD-ROMs are available for purchase from your local Pioneer dealer that includes the most current map and point of interest information. Contact your local Pioneer dealer for details. ▣

Protecting your unit from theft

The front panel can be detached from this product and stored in the protective case provided to discourage theft.

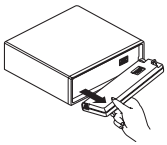
Important

- Never use force or grip the display and the buttons tightly when removing or attaching.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

Removing the front panel

1 Press OPEN to open the front panel. (Refer to Navigation unit on page 14.)

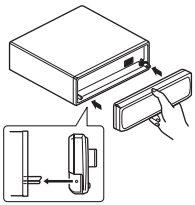
2 Grip the left side of the front panel and pull it gently outward.
Take care not to grip it tightly or to drop it.



3 Put the front panel into the protective case provided for safe keeping.

Attaching the front panel

● **Replace the front panel by holding it upright to this product and clipping it securely into the mounting hooks.**



▣

About the demo mode

This product features two demonstration modes. One is the reverse mode, the other is the feature demo mode.

- You cannot cancel a demo mode when the front panel is open.

Important

The red lead (ACC) of this product should be connected to a terminal coupled with ignition switch on/off operations. If this is not done, the vehicle battery may be drained.

Reverse mode

If you do not perform an operation within about 30 seconds, screen indications start to reverse, and then continue reversing every 10 seconds. Pressing **5** numbered button when power to this product is turned off while the ignition switch is set to ACC or ON cancels the reverse mode. Pressing **5** numbered button again to start the reverse mode.

Feature demo

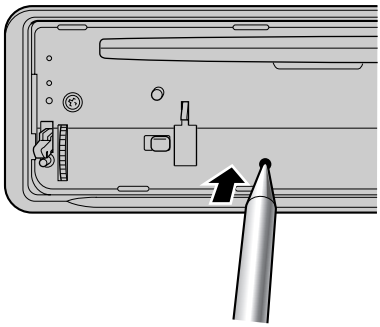
The feature demo automatically starts when power to this product is turned off while the ignition switch is set to ACC or ON. Pressing **6** numbered button during feature demo operation cancels the feature demo mode. Pressing

6 numbered button again to start the feature mode. Remember that if the feature demo continues operating when the vehicle engine is turned off, it may drain battery power. ▣

Resetting the Microprocessor

When the ignition switch is turned OFF, pressing **RESET** lets you reset the microprocessor. Press **RESET** in the following cases.

- Prior to using this product for the first time after installation.
- If this product fails to operate properly.
- If there appear to be problems with the operation of the system.
- When changing the combination of the equipment.
- When adding/removing additional products that attach to this product.



1 Turn the ignition switch OFF.

2 Remove the front panel.

Refer to *Removing the front panel* on page 12.

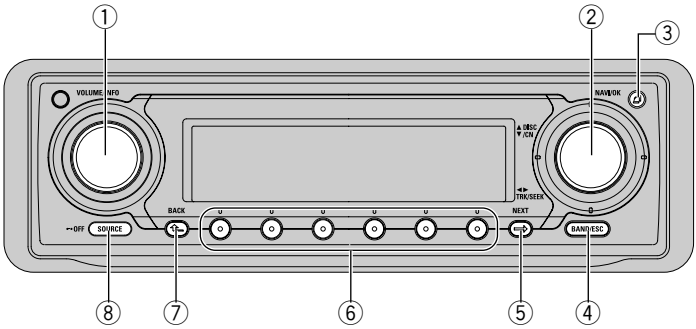
3 Press RESET.

Use a pen tip or other pointed instrument.

4 Attach the front panel.

Refer to *Attaching the front panel* on page 12. ▣

What's What



Navigation unit

① **VOLUME, INFO button**

• With the NAVIGATION function

Rotary: Lets you adjust guidance volume level while navigation announcements are being made.

Push: Displays information indications.

• With the AUDIO function

Rotary: Lets you adjust the volume level of each source.

Push: Lets you cancel each menu during operation.

② **Rotary stick, NAVI/OK button**

• With the NAVIGATION function

Rotary: Lets you select an item.

◄/►/▼/▲ : Let you select an item.

Push: Lets you confirm the selection.

• With the AUDIO function

Rotary: Lets you operate seek tuning or fast forward/reverse, and turns on/off each function.

◄/►/▼/▲ : Let you operate seek tuning or fast forward/reverse, and turns on/off each function.

Push: Switches to the main navigation display.

③ **OPEN button**

Press to open the front panel.

④ **BAND/ESC button**

• With the NAVIGATION function

Not used.

• With the AUDIO function

Press to select among three FM or MW/LW bands and cancel the control mode of functions.

⑤ **NEXT button**

• With the NAVIGATION function

Displays the status of the audio source on the lower part of the screen.

• With the AUDIO function

Press **NEXT** to switch through the functions of the multi-function buttons.

⑥ **Multi-function buttons**

Press to select functions.

⑦ **BACK button**

Pressing **BACK** cancels the current menu or mode and returns to the previously selected menu or mode.

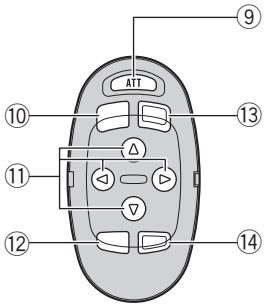
⑧ **SOURCE button**

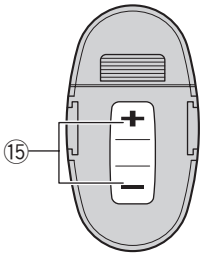
• With the NAVIGATION function

Switches to the main audio screen.

• With the AUDIO function

This product is switched on by selecting a source. Press to cycle through all of the available sources.





Optional remote control

The steering remote control CD-SR100 is sold separately.
Operation is the same as when using the button on the navigation unit. See the explanation of the navigation unit about the operation of each button with the exception of **ATT**, which is explained below.

⑨ **ATT button**
Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

⑩ **BAND button**

⑪ **◄/►/▼/▲ button**

⑫ **FUNCTION button**
Press to select functions

⑬ **SOURCE button**

⑭ **AUDIO button**
Press to select various sound quality controls.

⑮ **VOLUME button**
Press to increase or decrease the volume.

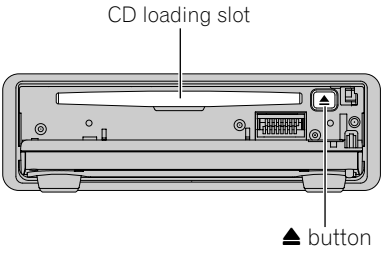
Note

Navigation operations of the ANH-P10MP cannot be performed even if the CD-SR100 is switched to the navigation mode. ▣

Using navigation

These are the basic steps necessary to operate the navigation. For more details and various functions, refer to *Section 02: Navigation* starting on page 20.

1 Press OPEN to open the front panel.
CD loading slot appears.

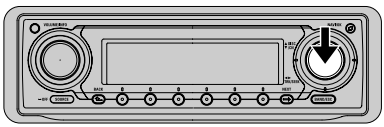


- If an audio CD is in the loading slot, press the ⏏ button and remove it.

2 Insert a Navigation CD into the CD loading slot.
Reading of the disc starts.

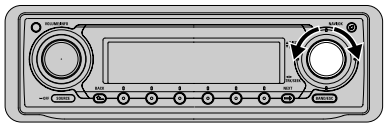
3 Close the front panel.
- If the navigation system has not yet been calibrated, a calibration journey is prompted (refer to "Installation manual").

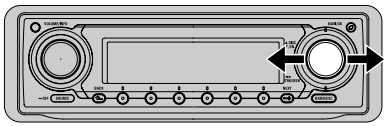
4 When the Audio screen is shown, press NAVI/OK to enter the Navigation mode.



The main navigation menu appears after a while. Refer to *Main navigation menu* on page 21.

5 Select "DESTINATION" by moving the rotary stick.



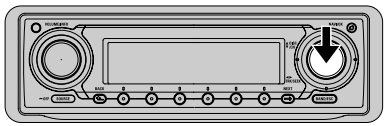


- Clockwise (or right): Next
- Counter-clockwise (or left): Back

Note

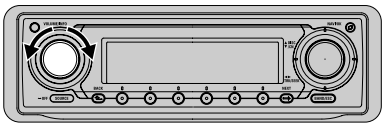
You can also select items by moving the rotary stick up or down.

6 Confirm the selection by pressing NAVI/OK.



- Use **NAVI/OK** not only to switch the display from the Audio screen to the Navigation screen, but also to set an item after selecting it.

7 Rotate VOLUME to increase or decrease the volume.
You can adjust the volume of the guidance voice of the Navigation System while navigation announcement are being made.



- Clockwise: Increasing the volume
- Counter-clockwise: Decreasing the volume

⚠ CAUTION

Never set the volume of your Navigation System so high that you cannot hear outside traffic and emergency vehicles.

Set your destination by repeating the above operations. After the destination have been set and the route has been calculated, the Navigation System starts giving route guidance. Refer to *Route guidance* on page 31.

Notes

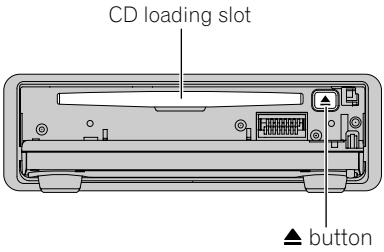
- During the calculation, flashes on the display. Once the calculation has been completed, extinguishes, you can remove the navigation CD and insert an audio CD.
- After setting your destination, wait for (calculation in progress) to disappear before starting the vehicle.

Playing an audio CD

This section describes how to use the built-in CD player. For details or audio-related functions, refer to each section (section 03 to section 11) from page 44.

1 Press OPEN to open the front panel.
CD loading slot appears.

2 Remove the navigation CD.

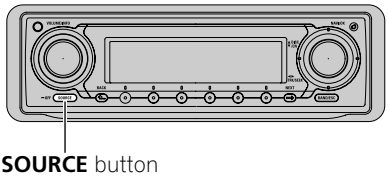


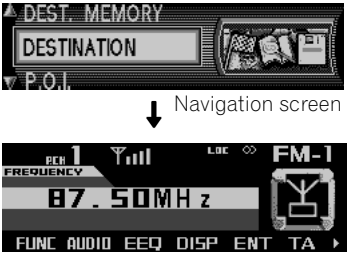
■ If the navigation CD has not been inserted, proceed to step 3.

3 Insert a CD into the CD loading slot.
Reading of the disc starts.

4 Close the front panel.

5 When the Navigation screen is shown, press SOURCE to enter the Audio mode.





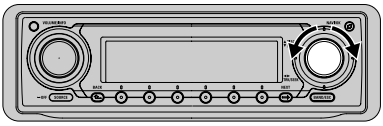
Navigation screen

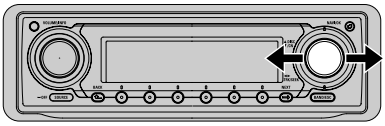
Audio screen

■ By pressing **SOURCE**, you can select the source you want to listen to. Refer to *Turning source on or off* on page 44, and *Selecting a source* on page 44.

6 Select a desired track by moving or rotating the rotary stick.

You can operate the rotary stick by rotating or moving it right or left.





- Clockwise (or right): Next
- Counter-clockwise (or left): Back

Note

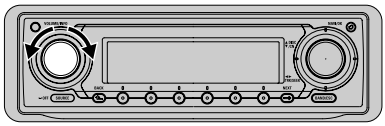
You can also select items by moving the rotary stick up or down.

The moving operations of the rotary stick are shown as follows in this manual.

- Moving up: ▲
- Moving down: ▼
- Moving to the left: ◄
- Moving to the right: ►

Ex.) To skip back or forward to another track, press ◄ or ►.

7 Rotate VOLUME to increase or decrease the volume.



- Clockwise: Increasing the volume
- Counter-clockwise: Decreasing the volume

⚠ CAUTION

Never set the volume of your Navigation System so high that you cannot hear outside traffic and emergency vehicles. ■

Using navigation and audio sources simultaneously

On the audio screen

If **SOURCE** is pressed after having set the destination during navigation, the audio screen and navigation information are displayed simultaneously.

Distance to the next guidance point and driving direction

An announcement is made by the guide audio as necessary. If "**N.INT**" has been set to "**ON**" in the Initial Settings, the screen automatically switches to the navigation screen when the vehicle approaches to the guidance point. The turning direction or the name of the next road coming up appears on the navigation screen. After the vehicle has passed the guidance point, the screen automatically returns to the audio screen.

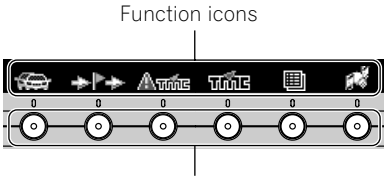
On the navigation screen

If **NEXT** is pressed during navigation, the navigation screen and the audio source status are displayed simultaneously.

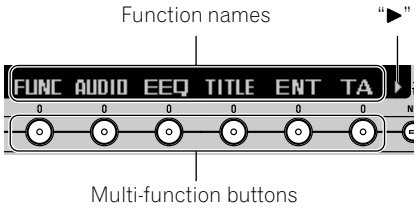
SOFT KEY operation

SOFT KEY operation means that the function of a button changes as indicated on the display. The multi-function buttons provide SOFT KEY operation; the functions performed by the buttons change according to the function or setting that has been selected.

For NAVIGATION operation



For AUDIO operation



Important

In this manual, for operations using the multi-function buttons are explained as following:

- For NAVIGATION operation

1 Press .

- For AUDIO operation

1 Press FUNC and then press NEXT.

Safety instructions

- The requirements of the Road Traffic Regulations (RTR) apply.
- Observation of traffic signs and local traffic regulations always takes priority.
- Traffic guidance is restricted to passenger vehicles. Special driving recommendations and regulations for other vehicles (e.g. commercial vehicles) are not taken into account.
- The destination must only be entered when the vehicle is stationary. ▣

Digitised area

- Some navigation CDs are supplied with this product. These CDs contain a digitised street map. Motorways, federal and regional roads, as well as district roads are detailed in this street map. Larger cities and boroughs are completely covered. The regional and unclassified roads or access roads and the town centre for smaller towns and boroughs are included.
- One way streets, pedestrian zones, turn bans and other traffic regulations are taken into account as far as possible. There may be discrepancies between the data on navigation CDs and the actual local situation, due to permanent changes to road systems and their traffic regulations.
- If you specify a location that does not exist on the navigation CD in the CD loading slot, a message appears on the screen prompting you to replace it with another navigation CD. After inserting the relevant navigation CD, enter the road and, if required, the house number or the town centre. The required map data is loaded and stored internally after route calculation has started. ▣

Basic operation for navigation

This section describes how to use the Navigation System. More advanced navigation operation is explained starting on next page.
If you operate the navigation for the first time, refer to *Using navigation* on page 16 for the basic operation.

Displaying the Navigation screen

1 Set the Navigation CD.
For setting the navigation CD, refer to *Using navigation* on page 16.

2 When the Audio screen is shown, press NAVI/OK to enter the Navigation mode.

The main navigation menu appears after a while. For the following operation, refer to *Main navigation menu* on page 21.

Notes

- Map data is on navigation CDs. The navigation CD for the destination country must be loaded when starting navigation operation for the first time.
- Pressing **BACK** quits the current menu and displays the previous menu.
- This product can be switched to Audio by pressing **SOURCE**.

Main navigation menu

You can start using the Navigation from the main navigation menu. Select an operation in the main navigation menu, then proceed to the next stage.

DEST. MEMORY

contains destinations which have been stored previously. Refer to *Selecting a destination from the memory* on page 26.

DESTINATION

accesses the Destination menu. Refer to *Entering the destination information* on page 23.

P.O.I.

Menu for the selection of special local and interregional destinations and points of interest nearby. Points of interest are e.g. petrol stations, airports or hospitals. Refer to *Selecting a special destination as destination* on page 25.

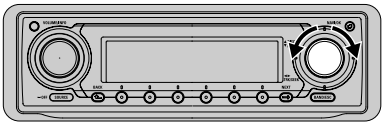
LAST DESTINATIONS

A list of the last 50 destinations is displayed. Refer to *Selecting a destination from the memory* on page 26.

Entering texts

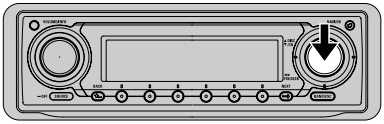
When the text input display appears while operating the navigation, follow the procedures below.

1 To select a letter, move the rotary stick.



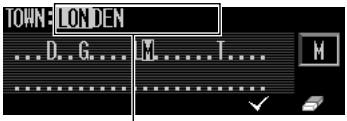
The enlarged selected letter appears at the right of the display.

2 To confirm the letter selected, press NAVI/OK.



Letters which are entered are displayed inversely.

3 To enter other letters, repeat step 1 and 2.



Text input field

- For the purpose of support, the existing entry is displayed at the text input field.
- This product offers only those letters, digits and symbols which are relevant for the entry.
- If no other entries are available, this product completes the entry automatically.
- Spaces (e.g. in London Apprentice) must be entered using the underline symbol.
- For deleting the letter one by one, press .
- For deleting the complete entry, press for more than 2 seconds.

4 To complete the entry, select ✓ and press NAVI/OK briefly.

- If the entry is unequivocal, or complete name was previously entered (or was automatically completed), the programme automatically switches to the next display.
- If an incomplete location entry was confirmed, a list is displayed. Refer to *When a list appears* on this page.
- You can also operate by pressing multifunction button ✓, or by pressing and holding **NAVI/OK** for more than 2 seconds.

When a list appears

If the text entry is ambiguous, a list is displayed. The scroll marks ▲ and ▼ indicate that more options are available for selection in alphabetical order.

1 Moving the rotary stick, scroll through the list and select the required item.

2 To confirm the selected item, press NAVI/OK briefly.

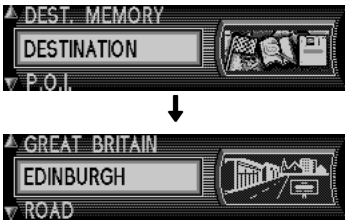
The programme switches to the next display. ▣

Entering the destination information

Display the destination menu, select a method of choosing a destination, then proceed to the next stage.

Displaying the destination menu

1 On the main navigation menu, select "DESTINATION" and press NAVI/OK.



On the destination menu, you can select following options.

- **(Country name; ex. GERMANY):** choose the country where your destination is located. Refer to *Selecting a country* on this page.
- **(Place-name):** enter the place-name to narrow down the search. Refer to *Entering the place-name for your destination* on page 24. When this screen appears for the first time after purchase, the place-name shows "**TOWN**". The place-name you have previously set as your destination will appear unless you change the country setting.
- **POST CODE:** enter a post code to narrow down the destination. Refer to *Entering post code for the destination* on page 27.
- **COORDINATES:** enter the longitude and latitude of your destination. Refer to *Entering longitude and latitude of the destination* on page 27.

The following items will become selectable after entering a place-name for the first time after purchase.

- **ROAD:** enter the name of the road which passes by the currently selected location to narrow down the destination. Refer to *Entering the road name* on page 24.
- **CENTRE:** select your destination from the city or town centres situated in the currently selected location. Refer to *Selecting the city or town centre as the destination* on page 25.

Selecting a country

The country name you have searched recently is listed on the destination menu. If necessary, select a country and search for your destination.

Country currently set

1 On the destination menu, select the country name currently displayed and press NAVI/OK.

A list of country names appears.

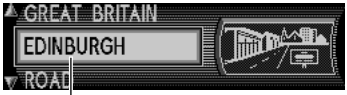
2 Select the country and then press NAVI/OK.

The programme returns to the destination menu.

For the following operation, refer to *Entering the place-name for your destination* on page 24, *Entering the road name* on page 24, or *Selecting the city or town centre as the destination* on page 25.

Entering the place-name for your destination

Enter the place-name to narrow down the search.



The last place-name entered

1 On the destination menu, select "TOWN" (or the place-name) and press NAVI/OK.

The text input display appears.

- Once you have specified the destination, the name of that location will appear instead of "**TOWN**" on the destination menu.
- If your destination is in the place displayed, you can select "**ROAD**" or "**CENTRE**" immediately for setting your destination. Refer to *Entering the road name* on this page and *Selecting the city or town centre as the destination* on page 25.

2 Enter the place-name for your destination.

Refer to *Entering texts* on page 21.

- If the location is recognised, the screen automatically switches to the destination menu.
- If there is more than one place having the same name, a place-name list appears. Select your destination from that list (refer to *When a list appears* on page 22). The destination menu appears after you have selected the location.

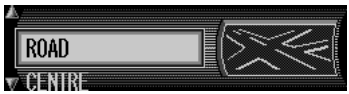
3 Select "ROAD" or "CENTRE" from the menu and then press NAVI/OK.

- **ROAD:** you can specify your destination by a road name.
- **CENTRE:** you can set the town or city centre situated within the specified location as your destination.

For the following operation, refer to *Entering the road name* on this page or *Selecting the city or town centre as the destination* on page 25.

Entering the road name

You can narrow down the search by specifying the road name.



1 Select "ROAD" and press NAVI/OK.

2 Enter the road name.

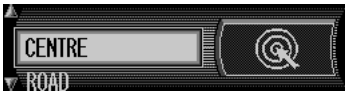
Refer to *Entering texts* on page 21.

- If the road is recognised, the screen automatically switches to the route menu.
- If the road passes through a number of places or there is more than one road with the same name, a road-name list or a place-name list appears. Choose your destination from that list (refer to *When a list appears* on page 22). The route menu appears after you have selected the location.

For the following operation, refer to *Setting the route* on page 28.

Selecting the city or town centre as the destination

You can specify the city or town centre situated within the specified place as your destination.



1 Select "CENTRE" and then press NAVI/OK.

- If the place selected only has one centre, the programme switches immediately to route menu (in this case, you don't have to operate step 2).
- If the number of centres is less than 10, the centre list is displayed.
- If the number of centres is greater than 9, the programme switches to the text input display. Enter the detailed information to narrow down the search, and then proceed to step 2.

2 Select the desired item from the list and then press NAVI/OK.

The programme switches to route menu.
For the following operation, refer to *Setting the route* on page 28.

Note

A list of possible centres is displayed immediately by pressing **NAVI/OK** for more than 2 seconds without having selected any letters.

Selecting a special destination as destination

Menu for selecting special points of interest (or P.O.I) from a specified list. Points of interest are e.g. petrol stations, airports or hospitals.

1 Specify the country you want to search.

Refer to *Selecting a country* on page 23.

2 From the main navigation menu, select "P.O.I." and press NAVI/OK.

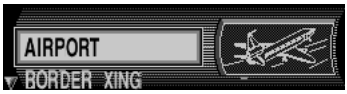
P.O.I. menu appears.

3 Make a selection and press NAVI/OK.

- **LOCAL AREA:** points of interest in the current surrounding area of your vehicle are listed according to proximity. Proceed to step 3.
- **NEAR DESTINATION:** when you are entering a stopover (refer to *Stopover* on page 38), points of interest near the destination are listed according to proximity. Proceed to step 3.
- **TOWN/COUNTRY:** specify the country and town that contain your destination and then specify the points of interest. (Refer to *Selecting a country* on page 23 and *Entering the place-name for your destination* on page 24.) After selecting "**TOWN/COUNTRY**", a menu for selecting the search method appears. If you select a country name, you can specify the points of interest in the currently selected country. If you select "**TOWN**", you can narrow down the search by entering the place-name. When you have selected "**NATIONWIDE**", you can narrow down the search based on the type of facilities in the country that is currently selected. Proceed to step 4.

English

4 Select a category and press NAVI/OK.



Points of interest are listed according to proximity.
If you select "**LOCAL AREA**" or "**NEAR DESTINATION**", the distance in a straight line between the special destination and the current location appears on the right. The arrows following the distance information indicate the direction from the current location.

- If the text input display appears, enter the information. Refer to *Entering texts* on page 21.
- If there are no points of interest that match the specified conditions, a message "**NO P.O.I. AVAILABLE**" appears.
- If a place-list appears, select a desired item from the list and press **NAVI/OK**. (Refer to *When a list appears* on page 22).

5 Select the desired destination and press NAVI/OK.
The system jumps to the route menu. For the following operation, refer to *Setting the route* on page 28.

Notes

- By pressing **INFO**, detailed information about the selected point of interest is displayed (e.g. a hospital).
- If you press **NAVI/OK** for more than 2 seconds on the text input display, a list of possible points of interest is displayed without having selected any letters.

Selecting a destination from the memory

Select the location where you want to go from the locations stored in the destination memory ("**DEST. MEMORY**") or from the list of last destinations ("**LAST DESTINATIONS**").
About destination memory, refer to *Storing a specified destination in the destination memory* on page 39.

1 On the main navigation menu, select "DEST. MEMORY" or "LAST DESTINATIONS" and press NAVI/OK.
A place list appears.

- If you press **DEL**, the selected item will be deleted from the memory.
- To check the information on the selected destination, press **INFO**.

Information on the selected destination is displayed. The screen automatically returns to the list in six seconds. (You can also return to the list by pressing **BACK**.)

2 Press NAVI/OK.
The system jumps to the route menu. For the following operation, refer to *Setting the route* on page 28.

- When you are entering a stopover, route calculation will start after pressing **NAVI/OK**. For the following operation, refer to *Route guidance* on page 31.

Entering post code for the destination

1 Specify the country you want to search.
Refer to *Selecting a country* on page 23.

2 On the destination menu, select "POST CODE" and press NAVI/OK.

3 Enter the post code for the destination.
Refer to *Entering texts* on page 21.
- The programme switches to the post code list if the selection is ambiguous.
- If the location that matches the post code is recognised, the city (or town) selection list appears.

4 Select the desired item from the list and then press NAVI/OK.
For the following operation, refer to *Entering the road name* on page 24 and *Selecting the city or town centre as the destination* on page 25.

Note

Due to the system characteristics, route guidance continues only in the area of the post code specified.

Entering longitude and latitude of the destination

1 On the destination menu, select "CO-ORDINATES" and press NAVI/OK.

2 Enter the latitude of the destination.
Entries the latitude in degrees, minutes, seconds and a direction, e.g. "51°31'9.4__N".
Refer to *Entering texts* on page 21.

3 Enter the longitude of the destination.
Entries the longitude as described above.

4 Enter the name for the destination.
The name you entered appears on the display. If you select ✓ and press **NAVI/OK**, the specified location will be registered in the destination memory.
- The name entered here appears in the destination memory.
- If a name has not been entered, the location is indicated in latitude and longitude in the destination memory.

5 Press NAVI/OK.

6 If necessary, input the place-name.
Refer to *Entering texts* on page 21.
Any name of your choice consisting of up to 20 characters can be entered for the specified destination.
- If you do not wish to enter a name of your choice, press and hold **NAVI/OK** for more than 2 seconds.

7 To store the place, select ✓ and press NAVI/OK briefly.
Destination memory list is displayed.

8 Select the desired place in the list by using the rotary stick and then press NAVI/OK.
Route menu appears. For the following operation, refer to *Setting the route* on page 28.

Note

If the coordinates entered are located beyond the boundaries of the digital map, a message will appear notifying you of this. The system cannot navigate to a position beyond the boundaries of the digital map.

Setting the route

The route menu appears when you specify information on your destination such as a place-name or road-name. On the route menu, you can enter detailed information about your destination or specify the conditions for calculating the route.

Route menu

The items listed in the route menu vary depending on the operations performed up to that time.
"**HOUSE NUMBER**" and "**CROSSING**" are only available if information is stored on the navigation CD.

On the route menu, you can select following options.

SAVE DESTINATION

You can name the currently specified destination and store it in the destination memory. Refer to *Storing a specified destination in the destination memory* on page 39.

NEW DESTINATION

You can return to the main navigation menu for saving another destination. Refer to *Main navigation menu* on page 21.

START– (FAST R./SHORT R./DYN R.)

Starts route calculation with a route option selected in "**ROUTE SETTINGS**" below. When route calculation is finished, route guidance will start. Refer to *Route guidance* on page 31.

HOUSE NUMBER

The house number in the specified road can be entered here. Refer to *Entering the house number for the destination* on this page.

CROSSING

An intersecting road can be defined as the destination here. Refer to *Specifying the route calculation conditions* on this page.

ROUTE SETTINGS

accesses the route option menu. You can specify the conditions that are to be taken into account when calculating the route. Specifications such as quick route, short route, dynamic route, motorway, ferries and toll roads can be selected here. Refer to *Specifying the route calculation conditions* on this page.

Entering the house number for the destination

1 On the route menu, select "HOUSE NUMBER" and press NAVI/OK.
The text input display appears.

2 Enter the house number.
Refer to *Entering texts* on page 21.

3 Select ✓ and press NAVI/OK briefly.
The programme switches to the route menu again. Refer to *Setting the route* on page 28.

Note

Due to the system characteristics, route guidance continues only in the area of the house number specified.

Selecting the intersection for the destination

1 On the route menu, select "CROSSING" and press NAVI/OK.
A list of roads that intersect with the currently specified road appears.

2 Select the intersection for the destination and press NAVI/OK.
The programme switches to the route menu. Refer to *Setting the route* on page 28.

Specifying the route calculation conditions

1 On the route menu, select "ROUTE SETTINGS" and press NAVI/OK.
Route option menu appears.

- **FAST ROUTE:** if selected, the programme calculates the shortest possible journey time.
- **RESTRICTIONS:** provides options for avoiding motorways, ferries or toll roads. Refer to *Specifying the types of road* on page 30.
- **SHORT ROUTE:** if selected, the programme calculates the shortest possible distance.
- **DYNAMIC ROUTE:** dynamic route guidance is used to calculate the route, taking current traffic announcements into account. Refer to *Dynamic navigation with TMC* on page 34.

2 Select a desired option, and then press NAVI/OK.

The selected route calculation conditions are set and the screen returns to the route menu.

Route calculation condition

Notes

- The setting "**SHORT ROUTE**" is often recommended for larger cities or metropolis.
- If Dynamic route guidance has been activated, the routes are calculated using the "**FAST ROUTE**" setting. Further information under *Dynamic navigation with TMC* on page 34.
- Dynamic route guidance is not possible in all countries.
- For short distances (up to 200 km), routes without motorways can only be calculated.

Specifying the types of road

1 On the route menu, select "ROUTE SETTINGS" and press NAVI/OK.

Route settings menu appears.

2 On the route settings menu, select "RESTRICTIONS" and press NAVI/OK.

3 Select a desired option, and then press NAVI/OK.

- **MOTORWAY:** selects whether using motorways or not.
- **FERRIES:** selects whether using ferries or not.
- **TOLL:** selects whether using toll roads or not.

4 Press NAVI/OK for more than 2 seconds.

The selected route calculation conditions are set and the screen returns to the route menu.

Note

For short distances (up to 200 km), routes without motorways can only be calculated. ▣

Route guidance

When you select "**START-**" on the route menu, the route calculation starts. When the calculation ends, the navigation system starts giving route guidance.

Calculating the route

1 On the route menu, select "START-".

The route calculation starts.

Route calculation may take several seconds. During route calculation, flashes on the display and the message "**CALC. ROUTE**" is displayed on the right. Driving off should be delayed until no longer flashes.

Once the calculation has been completed, disappears and the navigation announces: "Ready to drive off". Refer to *Screen during route guidance* on page 32.

Note

Once the calculation has been completed, you can remove the navigation CD and insert an audio CD. Refer to *Using navigation and audio sources simultaneously* on page 19.

⚠ CAUTION

When a route is calculated, the route and voice guidance for the route is automatically set. Also, for day or time traffic regulations, only information about traffic regulations at the time when the route was calculated is shown. For example, if a street is open during the morning only, but you arrive later, it would be against the traffic regulations so you cannot drive along the set route. When driving, please follow the actual traffic signs. Also, the system may not know some traffic regulations.

Screen during route guidance

■ The driving guidance is given by voice messages and displays on the screen.

① Current time
Refer to *Setting the time display on or off* on page 97 for on/of of the time display.

② Next road to take

③ Current road

④ Estimate time of arrival
An estimated time of arrival at the destination is displayed based on the setting of "**ETA CALCULATION**" in the System settings menu. (The displayed time is only an estimate.)

⑤ Arrow display
Follow the direction indicated by the arrow displayed on the right.

⑥ Distance to the next guidance point
The distance to be covered before the next announcement.

⑦ Speed limit
If the speed limit data for the current road is stored on the CD, the speed limit is displayed. Refer to *Displaying the speed limits* on page 43 for on/of of the speed limit display.

On this display, you can use following multi-function buttons.

Calculates a bypass on the route in order to avoid traffic jams or road blocks. Refer to *Avoiding a traffic jam* on page 38.

Specifies the location you want to stop over on the way. Refer to *Entering a stopover* on page 38.

Displays traffic information for the route currently being driven. Refer to *Using traffic information* on page 37.

Displays all traffic information. Refer to *Using traffic information* on page 37.

Displays a list of roads to take. Refer to *Requesting the road list* on page 36.

Shows information on your current location. Refer to *Requesting current position* on page 36.

Notes

- The navigation screen is automatically displayed when navigation announcements are given.
- The route is recalculated by the system if deviation from the route is made. During this recalculation, "**NEW ROUTE**" is displayed on the right.
- If the speed limit setting is set to on, the maximum permissible speed limit for the route is shown. Refer to *Displaying the speed limits* on page 43.

Example of navigation by displays on the screen and voice messages

For clarification, there follows a selection of examples of possible driving recommendations:

- **"Please perform a U-turn if possible".**

You are driving in the wrong direction and should turn back at the earliest opportunity.

- **"Please turn right after 200 metres".**

The progress bar on the left of the arrow illustrates the distance and the bar decreases as you approach the intersection.

Note

The buttons hidden under the distance indication can also be used.

- **"Please follow the road".**

This display tells you that you should follow the course of the road.

- **"Prepare to turn left" or "Please move into the left-hand lane".**

This recommendation prepares you for the next turning.
However, "move into the left-hand lane" does not mean that you should do so immediately!

Note

At junctions and intersections, only the end of the road which is to be passed is displayed.

- **"Please leave the intersection at the third exit on the right".**

This display shows you which exit (marked with the arrow) you must take at the intersection.

- **"Now drive straight ahead".**

At this point, drive straight ahead.

- **"Please follow the direction arrows".**

This display tells you that you are in a non-digitised street (e.g. vehicle park, garage), which is not included in the digital street map. The arrow indicates the direction of the destination from the current location.

- **"Keep right after 2 kilometres".**

Keeping to the right means that the road forks. Follow the relevant direction.

- **"You have reached your destination".**

Route guidance ends.

Dynamic navigation with TMC

Dynamic route guidance is used to calculate the route, taking current traffic announcements into account. The traffic announcements are transmitted by a TMC radio station in addition to the radio programme. Information is received and analysed by the navigation system.

Notes

- Dynamic route guidance is not possible in all countries.
- When any route recalculations are made with active dynamic route guidance, the navigation system may request the navigation CD (if the navigation CD is not already inserted).
- Your navigation system can receive TMC information, whether a TMC station is selected or not. However, in order to guarantee optimal reception of TMC information, we recommend the selection of a TMC station.
- Traffic announcements are transmitted by radio stations, therefore we cannot accept any responsibility for the completeness and correctness of the announcements.
- If the check determines that a traffic announcement is relevant for the route guidance, then a new route to the destination is calculated automatically by this product. "**NEW ROUTE**" appears on the display. In addition, there is a voice announcement "The route is being recalculated due to current traffic announcements". TMC is displayed inversely.
- If no TMC radio station was found, then a message "**CURRENTLY TMC RECEPTION IS NOT POSSIBLE**" is displayed. After a short time, this product switches back to the route guidance display.

Hearing the current guidance again

● **Press INFO.**
You can also see various information on the display. Refer to *Viewing information during route guidance* on page 36.
■ The current navigation announcement is interrupted by pressing **INFO**. By briefly pressing **INFO**, the navigation announcements are switched on again.

Selecting route guidance via display only

● **Press INFO for longer than 2 seconds during a navigation announcement.**
■ By briefly pressing **INFO**, the navigation announcements are switched on again.

Displaying the direction of travel

● **If the route to be travelled is not clear, e.g. at an intersection where a change in direction is not specified, press NAVI/OK.**

Adjusting the sound level of navigation announcement

● **Rotating the VOLUME while navigation announcements are being made.**
Refer to *Using navigation* on page 16.

⚠ WARNING

If a driving recommendation contradicts the applicable Road Traffic Regulations (RTR), the RTR is always valid!

Cancelling route guidance

1 During route guidance, press BACK.
A confirmation message appears asking you whether to cancel route guidance.

2 To cancel route guidance, press NAVI/OK within 8 seconds.
Route guidance ends.
■ To continue route guidance, press **BACK**.

Viewing information during route guidance

If you want to check information about the route or current location, use the information menu.

Displaying information menu

1 During route guidance, press INFO.
The destination (or stopover), the distance from your destination and the estimated time of arrival are displayed.
- To return to route guidance, press **INFO** again or wait for 8 seconds.

① Information on the destination or stopover

② Distance to the destination or stopover

③ Estimated time of arrival

2 Press a multi-function button for the desired item.
Press **INFO** to return to the route guidance display.
On this display, you can use following multi-function buttons.
- 3997 : you can check the journey duration, kilometres travelled.
- : appears if the stopover is set. You can check information about your destination.
- : the current time appears.
- : you can confirm the route calculation conditions that are currently set.
- If the information does not fit on one screen, you can scroll the screen with the rotary stick.

Requesting current position

During route guidance, you can check the current position.

1 Press .
The current position with road name (if available), degrees of longitude and latitude and the number of satellites received are displayed.

2 To return to the information menu, press NAVI/OK.

Note

For inactive route guidance, you can display the information menu by pressing **INFO**. The geographic position and number of satellites being used are displayed. To return to the guidance display, press **NAVI/OK**.

Requesting the road list

During route guidance, the planned route list can be requested.

1 Press during route guidance.
The current road and the road names up to the destination are displayed.

2 To scroll the route list, move the rotary stick.

3 To return to the guidance display, press NAVI/OK.

Notes

- After destination entry, there is a short delay until the route list is created.
- If the vehicle is "**OFF ROAD**" at the moment of destination entry, the route list cannot be created until a stored road is reached.

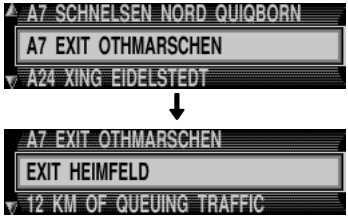
Using traffic information

Current traffic announcements can be displayed in plain text. There are several options for requesting current traffic information.

1 Press TMC or TMC during route guidance.

- TMC : a list of all current traffic information which is relevant for the calculated route is displayed. Refer to *When a list appears* on page 22. The scroll marks at the left edge of the list indicate that additional traffic information is available. When the route is not set, TMC does not appear.
- TMC : a list of all currently available traffic information is displayed. Refer to *When a list appears* on page 22.

2 To see more detailed information, select a desired item from the list and then press NAVI/OK.



A typical traffic announcement consists of:

- a motorway or road number
- approximate direction information
- detailed location and direction information
- the incident
- the cause, if known.

If scroll marks are visible at the left edge of the display, then more than 3 lines are used to display the traffic information.

3 Press BACK until the desired display appears.

Note

If no traffic information is currently available, "**NO TRAFFIC MESSAGES RECEIVED**" is displayed.

Avoiding a traffic jam

This function allows you to block the approaching route sections as from the next junction and calculate a bypass route when a traffic jam or road block is directly ahead.

Entering the length of the bypass

1 Press .

2 Select the length of the traffic jam and then press NAVI/OK.

(inversely) is displayed and the route is recalculated.

Delete bypass

1 Press .

2 To delete a bypass, press NAVI/OK within 8 seconds.

The route is recalculated and route guidance begins.

- To continue route guidance with a bypass, press **BACK**.

Stopover

This function enables a stopover to be entered when route guidance is active.

Entering a stopover

1 Press .

2 Select the way to enter a stopover.

"**LAST DESTINATIONS**" and "**DEST. MEMORY**" appears only when information is stored.

- **LAST DESTINATIONS:** specifies the location you have visited as a stopover. Refer to *Selecting a destination from the memory* on page 26.
- **DESTINATION:** enter the stopover information from the start. Refer to *Entering the destination information* on page 23.
- **P.O.I.:** specifies a special destination as a stopover. Refer to *Selecting a special destination as destination* on page 25.
- **DEST. MEMORY:** specifies the location stored in the destination memory as a stopover. Refer to *Selecting a destination from the memory* on page 26.

3 Specifying the location you want to register as a stopover by performing the same operation as for the destination.

Refer to *Entering the destination information* on page 23.

4 To start route calculation to the stopover, select "START" and then press NAVI/OK.

The route is calculated and route guidance begins.

Notes

- is displayed inversely during route guidance to a stopover.
- When you reach the stopover, the message "**YOU HAVE REACHED YOUR STOPOVER**" is displayed, and route guidance to the final destination automatically starts.

Deleting a stopover

1 Press .

A confirmation message appears asking you whether to delete the stopover.

2 To delete the stopover, press NAVI/OK within 8 seconds.

The route is recalculated and route guidance begins.

■ To continue route guidance with a stopover, press **BACK**.

Storing a specified destination in the destination memory

Destination memory saves repeated manual entry, if the destination is required at a later date. Refer to *Selecting a destination from the memory* on page 26.

Storing in the destination memory

1 Specifying the location you want to store by performing the same operation as for the destination

Refer to *Entering the destination information* on page 23.

The route menu appears when you enter the location information.

2 In the route menu, select "SAVE DESTINATION" and press NAVI/OK.

3 If necessary, input the place-name.

Refer to *Entering texts* on page 21.

Any name of your choice consisting of up to 20 characters can be entered for the specified destination.

■ If you do not wish to enter a name of your choice, press and hold **NAVI/OK** for more than 2 seconds.

4 To store the place, select ✓ and press NAVI/OK briefly.
Destination memory list is displayed.

5 Select the desired place in the list by using the rotary stick and then press NAVI/OK.
Returns to the route menu.

6 Select "START-" for starting route guidance.
The navigation system starts giving route guidance after storing information on the specified location in the destination memory.
■ If you want to store another location, select "**NEW DESTINATION**" and repeat the operations from step 1.

Notes

- A total of 50 destinations can be stored in the destination memory.
- When the destination memory is full, "**Destination memory full**" is displayed.
  — **DELETE**: jump to the destination memory in order to delete a destination.
  — **BACK**: cancel saving.

Deleting stored destinations

1 From the main navigation menu, select "DEST. MEMORY" and press NAVI/OK.

2 Select the destination to be deleted and press DEL.

System settings for navigation

If you want to change the various settings for the items displayed in the navigation screen or for performing navigation, use the system settings menu.

Displaying system settings menu

1 On the main navigation menu, press BACK.
The system settings menu appears.

■ **TIME:** the internal system clock can be set to local time. Refer to *Setting the time* on page 41.
■ **SAVE POSITION:** the current position can be saved and stored in the destination memory. Refer to *Saving the position* on page 41.
■ **LANGUAGE*:** language setting for the navigation system. Refer to *Setting the language for navigation* on page 42.
■ **MEASURING UNIT:** the measuring units can be changed from metres to yards. Refer to *Selecting the measuring unit* on page 42.
■ **ANNOUNCEMENT ETA:** announcement of the estimated time of arrival can be switched on/off. Refer to *Switching announcement of the estimated time of arrival on/off* on page 42.
■ **ETA CALCULATION:** this setting controls the estimated average speed when driving on a motorway. Refer to *Average speed* on page 43.
■ **SPEEDLIMITS:** announcement of the speed limits of the road can be switched on/off. Refer to *Displaying the speed limits* on page 43.

Note

You cannot perform any operation during route guidance. First delete the route, or wait until you have reached your destination.

Setting the time

In order to achieve correct navigation on routes requiring guidance under time restrictions and to calculate the estimated time of arrival, it is necessary to set the GMT time transmitted from satellites to the current time zone.

1 In the system settings menu, select "TIME" and press NAVI/OK.

2 To change the time display, press 24H.
The multi-function button changes to **12H** and the time display changes from the 24 hour to the 12 hour display.
- You can return to the 24 hour display by pressing **12H**.

3 To change the time every half an hour, press + or -.

4 Press OK.
The time set is accepted and the programme returns to the system settings menu.
- You can also operate by pressing **NAVI/OK**.

Saving the position

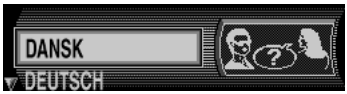
1 In the system settings menu, select "SAVE POSITION" and then press NAVI/OK.
The current position, in degrees of longitude and latitude, is displayed.

2 To store the current position, press NAVI/OK again.

3 Proceed to step 3 of Storing a specified destination in the destination memory starting on page 39.

English

Setting the language for navigation



1 In the system settings menu, select "LANGUAGE*" and press NAVI/OK.
The language selection list appears.

2 Select the language and then press NAVI/OK.

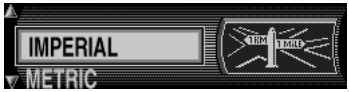
3 If a list appears, select the voice and then press NAVI/OK.
The language and voice is accepted and installed, and a screen appears telling you that the language installation has completed.

4 Press NAVI/OK.
The system returns to the system settings menu.

Notes

- In the case you have mistakenly switched to a language you cannot read, perform operation by following the asterisk (*) on the system settings menu.
- The language set here is for the navigation screen. If you want to change the language displayed for the Audio screen, refer to *Selecting the display language* on page 93.

Selecting the measuring unit



1 In the system settings menu, select "MEASURING UNIT" and press NAVI/OK.

2 Select the desired option and then press NAVI/OK.
The measuring unit is accepted and the system returns to the system settings menu.

- "**METRIC**" indicates calculation in metres.
- "**IMPERIAL**" indicates calculation in yards.

Switching announcement of the estimated time of arrival on/off

1 In the system settings menu, select "ANNOUNCEMENT ETA" and then press NAVI/OK.
ETA stands for Estimated Time of Arrival.

2 To select between ANNOUNCEMENT ETA "ON" and "OFF", press NAVI/OK briefly.

3 Press and hold NAVI/OK.
The setting is accepted and the system returns to the system settings menu.

Average speed

1 In the system settings menu, select "ETA CALCULATION" and then press NAVI/OK.

2 Select the estimated average speed and then press NAVI/OK.
The estimated average speed is accepted and the system returns to the system settings menu. You can select from "**SPORTY**", "**NORMAL**" and "**LOW-RISK**" in order of speed.

Displaying the speed limits

If the speed limits display is "**ON**", the system will inform you of the maximum permissible speed limit for the route along which you are travelling during route guidance, insofar as this information is available.

⚠ WARNING

Road traffic regulations always take priority when a vehicle is being driven in traffic. Road signs en-route should always be heeded. In some cases, the speed limit indicated by the navigation system may be incorrect. At all times, the driver must decide whether or not to heed the speed limit indicated. We do not accept liability for erroneous data provided by the navigation system.

1 In the system settings menu, select "SPEEDLIMITS" and press NAVI/OK.

2 To select between SPEEDLIMITS "ON" and "OFF", press NAVI/OK briefly.

3 Press and hold NAVI/OK.
The setting is accepted and the system returns to the system settings menu.

- When you travel along a route with a speed limit and this speed limit is stored on the navigation CD, the corresponding symbol will appear on the right-hand side of the display indicating the speed limit.
- On routes with variable speed limits (dependent on weather conditions, time of day etc.) a symbol with the text "**DYN**" or a speed with an underscore (e.g.: "80") draws the driver's attention to the fact that the speed limit is variable.

Note

As temporary speed limits (e.g. due to road works) are usually short-lived, these have not been included on the navigation CD. ▣

English

Turning source on or off, and selecting a source

You can select the source you want to listen to. To switch to built-in CD player, load a CD in this product. (Refer to *Playing an audio CD* on page 17.)

1 Press SOURCE to select the desired source (e.g., tuner).

Press SOURCE repeatedly to switch between the following sources:
Compact Disc (Built-in CD player)—**Television** (TV tuner)—**Tuner** (Radio)—**DAB** (Digital Audio Broadcasting)—**Multi-CD** (Multi-CD player)—**External1** (External unit 1)—**External2** (External unit 2)—**AUX** (Auxiliary)—**TEL** (Telephone)

2 Raise or lower the volume.

Rotating the **VOLUME** adjusts the volume level.

- Rotate clockwise to raise the volume level.
- Rotate counterclockwise to lower the volume level.

3 Press and hold SOURCE to turn the source off.

Notes

- External unit refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by this product. Two external units can be controlled by this product, although "**External**" is displayed whether you select external unit 1 or external unit 2. When two external units are connected, the allocation of them to external unit 1 or external unit 2 is automatically set by this product.
- In the following cases, the sound source will not change:
  - * When no product corresponding to the source is connected to this product.
  - * No audio disc is set in this product.
  - * No magazine is set in the multi-CD player.
  - * **AUX** (auxiliary setting) is set to off. (Refer to *Switching the auxiliary setting* on page 92.)
  - * When the telephone standby is set to off. (Refer to *Switching the telephone standby* on page 96).
- When this product's blue/white lead is connected to the vehicle's auto-aerial relay control terminal, the vehicle's auto-aerial extends when this product's source is switched on.

Example of multi-function button operation

Here the "random play" function of the built-in CD player is used as an example to illustrate operation of the multi-function buttons.

1 Press NEXT repeatedly until "FUNC" appears.

2 Press FUNC to enter the function menu.

With the switch to the function menu, the functions of the multi-function buttons also change simultaneously.

3 Press RDM to select the random mode.

4 Press RDM to turn random play on.

The light illuminates.

■ Press **RDM** again to turn random play off. The light goes off.

5 Press BACK to exit the function menu.
When the function menu is exited, the functions of the multi-function buttons also change simultaneously.

Notes

- You can also turn random play on or off by pressing ▲ or ▼ in the random mode.
- If you do not operate the function within about 30 seconds, the display is automatically returned. ▣

Key guidance indicator

This product's display features key guidance indicators. These light to indicate which of ▲/▼/◀/▶ of the rotary stick you can use. When you are in the function menu, audio menu or the other menus, they also make it easy to see which ▲/▼/◀/▶ of the rotary stick you can use to switch functions on/off, switch repeat selections and perform other operations.

Key guidance indicators

Note

In this manual, operation for each mode is given mainly in terms of the multi-function buttons. However, in each mode, when the key guidance indicators are lit it is also possible to use ▲/▼/◀/▶ to operate the mode.

Switching the function of the multi-function buttons

The "▶" indicator shows that the multi-function buttons have functions other than those currently displayed. When this indicator is visible, press **NEXT** to switch through the functions of the multi-function buttons.

● **Press NEXT repeatedly to switch between the functions.**

Notes

- The number of functions or displays switched through will differ according to the source or menu selected.
- When no function is indicated for a button, that button is not currently active. ▣

The difference between the BAND/ESC button and the BACK button

BAND/ESC button

Pressing **BAND/ESC** immediately cancels the current menu or mode, and returns to the basic displays.

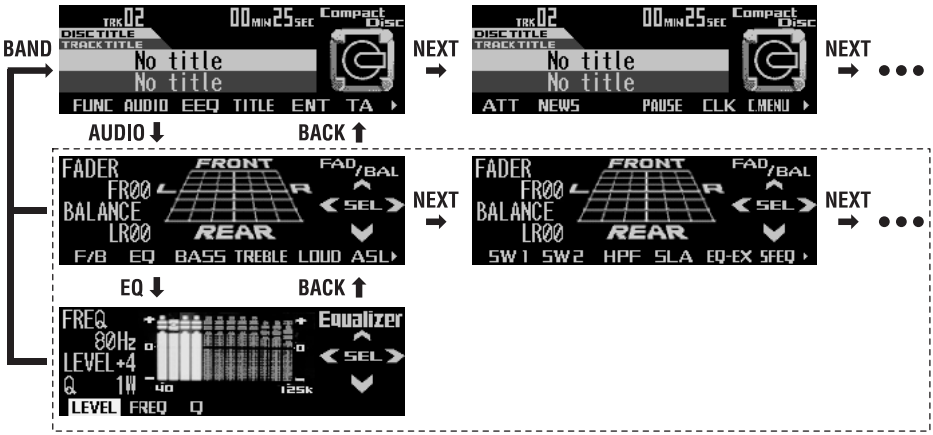
BACK button

Pressing **BACK** cancels the current menu or mode and returns to the previously selected menu or mode.

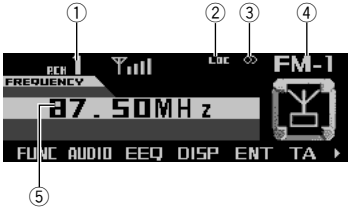
Note

When the source is the Tuner, TV tuner or DAB tuner and no menu or mode is selected, pressing **BAND/ESC** has the effect of switching bands.

Display example (e.g., Audio menu)



Listening to the radio



These are the basic steps necessary to operate the radio. More advanced tuner operation is explained starting on the next page.

① **Preset number indicator**
Shows what preset has been selected.

② **LOC indicator**
Shows when local seek tuning is on.

③ **Stereo ( ) indicator**
Shows that the frequency selected is being broadcast in stereo.

④ **Band indicator**
Shows which band the radio is tuned to, MW, LW or FM.

⑤ **Frequency indicator**
Shows to which frequency the tuner is tuned. ▣

Operation

1 Press SOURCE until "Tuner" appears.

2 Use VOLUME to adjust the sound level.
Rotate to increase or decrease the volume.

3 Press BAND/ESC to select a band.
Press **BAND/ESC** until the desired band is displayed, **FM–1**, **FM–2**, **FM–3** for FM or **MW/LW**.

4 To perform manual tuning, press ◀ or ▶ with quick presses.
The frequencies move up or down step by step.

5 To perform seek tuning, press and hold ◀ or ▶ for about one second and release.
The tuner will scan the frequencies until a broadcast strong enough for good reception is found.

- You can cancel seek tuning by pressing either ◀ or ▶ briefly.
- If you press and hold ◀ or ▶ you can skip broadcasting stations. Seek tuning starts as soon as you release the buttons.

Notes

- After choosing your destination, press **INFO** and you can listen to the guide voice during navigation guidance.
- When new traffic information arrives, TRAFFIC appears. If desired, check the new information. ▣

Advanced tuner operation

Tuner function menu

The tuner function menu has the following functions:
BSM (best stations memory)
LOC (local seek tuning)
AF (alternative frequencies search)
PTY (programme type selection)
REG (regional)

FM

MW/LW

1 Press FUNC to display the function menu.

2 To return to the frequency display, press BAND/ESC.

■ If MW/LW band is selected, you can only select "**BSM**" or "**LOC**".

Note

- "**AF**", "**PTY**" and "**REG**" are RDS functions for FM bands. See *Selecting alternative frequencies* on page 51, *Using PTY functions* on page 53 and *Limiting stations to regional programming* on page 52.
- If you do not operate the function within about 30 seconds, the display is automatically returned to the frequency display. ▣

Storing and recalling broadcast frequencies

You can easily store up to six broadcast frequencies for later recall with the touch of a button.

1 Find a frequency that you want to store in memory.

2 Press NEXT until "1" - "6" appears.

3 Press a preset tuning button 1 – 6 and hold until the preset number stops flashing.
The number you have pressed will flash in the preset number indicator and then remain lit. The selected radio station frequency has been stored in memory.

4 Press the same preset tuning button 1 – 6.
The radio station frequency is recalled from memory.

Notes

- This product's AF (alternative frequencies search) function can be turned on and off. AF should be off for normal tuning operation (refer to *Selecting alternative frequencies* on page 51).
- Up to 18 FM stations, 6 for each of the three FM bands, and 6 MW/LW stations can be stored in memory.
- You can also use ▲ and ▼ to recall radio station frequencies assigned to preset tuning buttons **1 – 6**. ▣

Tuning in strong signals

Local seek tuning lets you tune in only those radio stations with sufficiently strong signals for good reception.

1 Press FUNC and then press LOC to select the local mode.

2 Press LOC to set the local seek sensitivity.

There are four levels of sensitivity for FM and two levels for MW/LW:

FM: **LOCAL OFF** — **Level 1** — **Level 2**— **Level 3** — **Level 4**

MW/LW: **LOCAL OFF** — **Level 1** — **Level 2**

The **Level 4** setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under preset tuning buttons **1 – 6** and once stored there you can tune in to those frequencies with the touch of a button.

1 Press FUNC to select BSM mode.

2 Press BSM to turn BSM on.

"**Searching**" appears. The six strongest broadcast stations will be stored under the buttons **1 – 6** and in order of their signal strength. When finished, "**Searching**" disappears.

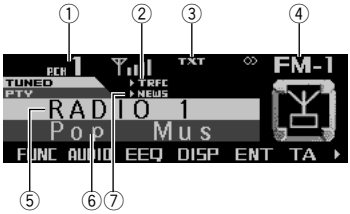
- To cancel the storage process before it is completed, press **BSM** again while "**Searching**" appears.

Note

Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using **1 – 6**.

English

Using RDS



RDS (radio data system) is a system for providing information along with FM broadcasts. This inaudible information provides such features as programme service name, programme type, traffic announcement standby and automatic tuning, intended to aid radio listeners in finding and is tuning in to a desired station.

① **Preset number indicator**
Shows which number has been selected.

② **TRFC indicator**
Shows when a TP station is tuned in.

③ **TXT indicator**
Shows when the radio text is received.

④ **Band indicator**

⑤ **Programme service name (or frequency)**
Shows the name of broadcast programme.

⑥ **PTY information**
Shows the type of programme.

⑦ **NEWS(N) indicator**
Shows when the set news programme is received.

RDS tuner function menu

The RDS tuner function menu has the following functions:
BSM (best stations memory)
LOC (local seek tuning)
AF (alternative frequencies search)
PTY (programme type selection)
REG (regional)

1 Press FUNC to display the function names.

2 To return to the frequency display, press BAND/ESC.

Notes

- If you do not operate the function within about 30 seconds, the display is automatically returned to the frequency display.
- RDS service may not be provided by all stations.
- RDS functions like AF and TA are only active when your radio is tuned to an RDS station.
- After choosing your destination, press **INFO** and you can listen to the guide voice during navigation guidance.
- When new traffic information arrives, TRAFFIC appears. If desired, check the new information. ■

Switching the RDS display

When you tune in an RDS station its programme service name is displayed. If you want to know the frequency you can.

● **Press DISP.**

Press **DISP** repeatedly to switch between the following settings:

Programme service name — Frequency

PTY (programme type ID code) information is listed in *PTY list* on page 55.

■ PTY information and the frequency of the current station appears on the display for eight seconds.

■ If a PTY code of zero is received from a station, display is blank. This indicates that the station has not defined its programme contents.

■ If the signal is too weak for this product to pick up the PTY code, the PTY information display is blank. ▣

Selecting alternative frequencies

If you are listening to a broadcast and the reception becomes weak or there are other problems, the unit will automatically search for a different station in the same network which is broadcasting a stronger signal.

• AF is on as a default.

1 Press FUNC and then press AF to select the AF mode.

2 Press AF to turn the AF function on.

The light illuminates.

■ Press **AF** again to turn the AF function off.

Notes

- Only RDS stations are tuned in during seek tuning or BSM when AF is on.
- When you recall a preset station, the tuner may update the preset station with a new frequency from the station's AF list. (This is only available when using presets on the "**FM–1**" or "**FM–2**" bands.) No preset number appears on the display if the RDS data for the station received differs from that for the originally stored station.
- Sound may be temporarily interrupted by another programme during a AF frequency search.
- AF can be turned on or off independently for each FM band.

Using PI Seek

If the unit fails to find a suitable alternative frequency, or if you are listening to a broadcast and the reception becomes weak, the unit will automatically search for a different station with the same programming. During the search, "**PI Seek**" is displayed and the output is muted. The muting is discontinued after completion of the PI Seek, whether or not a different station is found.

Using Auto PI Seek for preset stations

When preset stations cannot be recalled, as when travelling long distances, the unit can be set to perform PI Seek during preset recall.

- The default setting for Auto PI Seek is off. Refer to *Switching the auto PI seek* on page 95.

Limiting stations to regional programming

When AF is used to automatically retune frequencies, the regional function limits the selection to stations broadcasting regional programmes.

1 Press FUNC and then press REG to select the regional mode.

2 Press REG to turn the regional function on.

The light illuminates.

■ Press **REG** again to turn the regional function off.

Notes

- Regional programming and regional networks are organized differently depending on the country (i.e., they may change according to the hour, state or broadcast area).
- The preset number may disappear on the display if the tuner tunes in a regional station which differs from the originally set station.
- The regional function can be turned on or off independently for each FM band.

Receiving traffic announcements

TA (traffic announcement standby) lets you receive traffic announcements automatically, no matter what source you are listening to. TA can be activated for both a TP station (a station that broadcasts traffic information) or an enhanced other network's TP station (a station carrying information which cross-references TP stations).

1 Tune in a TP or enhanced other network's TP station.

When you are tuned into a TP or enhanced other network's TP station the **TRFC** indicator will light.

2 Press TA to turn traffic announcement standby on.

Press **TA** and "▶**TRFC**" appears in the display. The tuner will stand-by for traffic announcements.

■ If you turned TA function on while tuned in to neither a TP nor an enhanced other network's TP station, only "**T**" in the **TRFC** indicator rights.

■ To turn traffic announcements standby off, press **TA** again.

3 Use VOLUME to adjust the TA volume when a traffic announcement begins.

Rotate to increase or decrease the volume. The newly set volume is stored in memory and recalled for subsequent traffic announcements.

4 Press TA while a traffic announcement is being received to cancel the announcement.

The tuner returns to the original source but remains in the standby mode until **TA** is pressed again.

■ You can also cancel the announcement by pressing **SOURCE**, **BAND/ESC**, ▲, ▼, ◀ or ▶ while a traffic announcement is being received.

Notes

- You can also turn the TA function on or off in the menu that appears with the pressing of **FUNC**.
- The system switches back to the original source following traffic announcement reception.
- Only TP and enhanced other network's TP stations are tuned in during seek tuning or BSM when TA is on.

Using PTY functions

You can tune in a station by using PTY information.

Searching for an RDS station by PTY information

You can search for general types of broadcasting programmes, such as those listed in the *PTY list* on page 55.

1 Press FUNC and then press PTY to select the PTY search mode.

2 Press any of the buttons 1 – 4 to search the desired PTY.

The tuner searches for a station broadcasting the desired PTY.

Notes

- The programme of some stations may differ from that indicated by the transmitted PTY.
- If no station is broadcasting the type of programme you searched for, "**Not found**" is displayed for about two seconds and then the tuner returns to the original station.

Using news programme interruption

When a news programme is broadcast from a PTY code news station the unit can switch from any station to the news broadcast station. When the news programme ends, reception of the previous programme resumes.

1 Press NEXT until "NEWS" appears.

2 Press NEWS to turn the news interruption on.

The "▶**NEWS**" or "**N**" indicator lights.

- Press **NEWS** again to turn the news interruption off.
- Press **TA** during news programme reception to cancel the news programme.
- You can also cancel the news programme by pressing **SOURCE**, **BAND/ESC**, ▲, ▼, ◀ or ▶ while a news programme is being received.

Receiving PTY alarm broadcasts

PTY alarm is a special PTY code for announcements regarding emergencies such as natural disasters. When the tuner receives the radio alarm code, "**ALARM**" appears on the display and the volume adjusts to the TA volume. When the station stops broadcasting the emergency announcement, the system returns to the previous source.

- An emergency announcement can be cancelled by pressing **TA**.
- You can also cancel an emergency announcement by pressing **SOURCE**, **BAND/ESC**, ▲, ▼, ◀ or ▶.

Using radio text

This tuner can display radio text data transmitted by RDS stations, such as station information, the name of the currently broadcast song and the name of the artist.

- The tuner automatically memorises the three latest radio text broadcasts received, replacing text from the least recent reception with new text when it is received.

Displaying radio text

You can display the currently received radio text and the three most recent radio text.

1 Press NEXT until "R.TEXT" appears.

2 Press R.TEXT to switch to the radio text mode.

Radio text for the currently broadcasting station is displayed.

■ You can cancel radio text display by pressing **BAND/ESC**.

■ When no radio text is received, "**No text**" is displayed.

3 Press ◀ or ▶ to recall the three most recent radio text.

Pressing ◀ or ▶ switches between the current and the three radio text data displays.

■ If there is no radio text data in memory the display will not change.

Storing and recalling radio text

You can store data from up to six radio text transmissions at buttons **MEMO1**–**MEMO6**.

1 Display the radio text you want to store in memory.

Refer to *Displaying radio text* on this page.

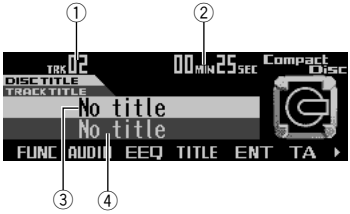
2 Press any of MEMO1–MEMO6 and hold to store the selected radio text.

The memory number will display and the selected radio text has been stored in memory. The next time you press the same **MEMO1**–**MEMO6** button in the radio text display the stored text is recalled from memory. ▣

PTY list

General	Specific	Type of programme
News&Inf	**News**	News
	Affairs	Current affairs
	Info	General information and advice
	Sport	Sports
	Weather	Weather reports/meteorological information
	Finance	Stock market reports, commerce, trading, etc.
Popular	**Pop Mus**	Popular music
	Rock Mus	Contemporary modern music
	Easy Mus	Easy listening music
	Oth Mus	Non categorised music
	Jazz	Jazz
	Country	Country music
	Nat Mus	National music
	Oldies	Oldies music, golden oldies
	Folk mus	Folk music
Classics	**L. Class**	Light classical music
	Classic	Serious classical music
Others	**Educate**	Educational programmes
	Drama	All radio plays and serials
	Culture	National or regional culture
	Science	Nature, science and technology
	Varied	Light entertainment
	Children	Children's
	Social	Social affairs
	Religion	Religion affairs or services
	Phone In	Phone In
	Touring	Travel programmes, not for announcements about traffic problems
	Leisure	Hobbies and recreational activities
	Document	Documentaries

Playing a disc



These are the basic steps necessary to play a disc with your built-in CD player. More advanced CD operation is explained starting on the next page.

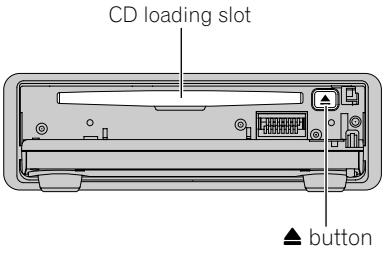
① **Track number indicator**
Shows the track currently playing.

② **Play time indicator**
Shows the elapsed playing time of the current track.

③ **Disc title (if exists)**
Shows title of the disc currently playing.

④ **Track title indicator (if exists)**
Shows the title of the track currently playing.

1 Press OPEN to open the front panel.
CD loading slot appears.



- If a navigation CD is in the loading slot, press the ⏏ button and remove it.
- After a CD has been inserted, press **SOURCE** to select the built-in CD player.
- The navigation CD must be inserted to start the route calculation. During the calculation, the prompt CD flashes on the display. Once the calculation has been completed, the prompt CD extinguishes, the navigation CD can be removed and an audio CD can be inserted.

⚠ WARNING

Do not use with the front panel left open. If the front panel is left open, it may result in injury in the event of an accident.

2 Insert a CD into the CD loading slot.
Playback will automatically start.
- You can eject a CD by pressing ⏏.
- To avoid a malfunction, make sure that no metal object comes into contact with the terminals when the front panel is open.

3 Close the front panel.

4 Use VOLUME to adjust the sound level.
Rotate to increase or decrease the volume.

5 To perform fast forward or reverse, press and hold ◀ or ▶.
- If you select the search method to "**Rough search**", pressing and holding ◀ or ▶ enables you to search every ten track in the current disc. (Refer to *Selecting the search method* on page 60.)

6 To skip back or forward to another track, press ◀ or ▶.
Pressing ▶ skips to the start of the next track. Pressing ◀ once skips to the start of the current track. Pressing again will skip to the previous track.

Notes

- When the front panel is open, multi-function buttons are not available.
- The built-in CD player plays one, standard, 12-cm or 8-cm (single) CD at a time. Do not use an adapter when playing 8-cm CDs.
- Do not insert anything other than a CD into the CD loading slot.
- A CD left partially inserted after ejection may incur damage or fall out.
- If you cannot insert a disc completely or if after you insert a disc the disc does not play, check that the label side of the disc is up. Press ⏏ to eject the disc, and check the disc for damage before inserting the disc again.
- If the built-in CD player does not operate properly, an error message such as "**ERROR-11**" may be displayed. Refer to *Understanding built-in CD player error messages* on page 100.
- When the disc title has been entered, the disc title automatically begin to scroll in the display.
- When a CD TEXT disc is inserted, the disc and track titles automatically begin to scroll in the display. When Ever-scroll is set to "**ON**" at the initial setting, the disc and track titles scroll continuously. About Ever-scroll, refer to *Switching the Ever-scroll* on page 96.
- After choosing your destination, press **INFO** and you can listen to the guide voice during navigation guidance. ▣

Advanced built-in CD player operation

Function menu

The built-in CD player function menu has the following functions:
RPT (repeat play)
RDM (random play)
SCAN (scan play)
T.LIST (track title list)
PAUSE (pause)
TTLin (disc title input)
COMP (compression and BMX)
R.SRCH (search method)
T.READ (tag display)

1 Press FUNC to display the function names.

2 To return to the playback display, press BAND/ESC.

Notes

- When playing audio data (CD-DA), it is not effective even if you turn "**T.READ**" (tag display) on. (Refer to *Switching the tag display* on page 68.)
- If you do not operate the function within about 30 seconds, the display is automatically returned. (When you select the disc title input mode ("**TTLin**"), the display is not returned automatically.)
- "**T.LIST**" is displayed only when playing a CD TEXT disc. ▣

Repeating play

Repeat play lets you hear the same track over again.

1 Press FUNC to select the repeat mode.

2 Press RPT to turn the repeat play on.
The light illuminates. The track currently playing will play and then repeat.
- Press **RPT** again to turn repeat play off.

Notes
- If you perform track search or fast forward/reverse, repeat play is automatically cancelled.
- When the repeat mode is exited while repeat play is on, "**RPT**" appears on the basic display.

Playing tracks in a random order

Random play lets you play back tracks on the CD in a random order.

1 Press FUNC and then press RDM to select the random mode.

2 Press RDM to turn random play on.
The light illuminates. Tracks will play in a random order.
- Press **RDM** again to turn random play off.

Note
When the random mode is exited while random play is on, "**RDM**" appears on the basic display.

Scanning tracks of a CD

Scan play lets you hear the first 10 seconds of each track on the CD.

1 Press FUNC and then press SCAN to select the scan mode.

2 Press SCAN to turn scan play on.
The light illuminates. The first 10 seconds of each track are played.

3 When you find the desired track, press SCAN to turn scan play off.
The light goes off. The track will continue to play.
- If the scan mode is automatically cancelled, select the scan mode again.

Notes
- After scanning of a CD is finished, normal playback of the tracks will begin again.
- When the scan mode is exited while scan play is on, "**SCAN**" appears on the basic display.

Selecting tracks from the track title list

The track title list lets you see the list of track titles on a CD TEXT disc and select one of them for playback.

1 Press FUNC and then press T.LIST to select the track title list mode.

2 Press NEXT until the desired track title appears.

3 Press the corresponding number button to select the desired track title.
That selection will begin to play.

Notes

- You can also use ◀, ▶ and ▲ (or **NAVI/OK**) to select and play the desired track title.
- Only when playing a CD TEXT disc on the built-in CD player or a CD TEXT compatible multi-CD player, you can switch to this mode. ▣

Pausing CD playback

Pause lets you temporarily stop playback of the CD.

1 Press FUNC and then press PAUSE to select the pause mode.

2 Press PAUSE to turn the pause on.
The light illuminates. Play of the current track pauses.
- To turn the pause off, press **PAUSE** again.

Notes

- You can also turn pause on or off by pressing **PAUSE** in the following display.

- When the pause mode is exited while pause is on, "**PAUSE**" is displayed in the basic display. ▣

Using compression and BMX

Using the COMP (compression) and BMX functions let you adjust the sound playback quality of the CD player. Each of the functions has a two-step adjustment. The COMP function balances the output of louder and softer sounds at higher volumes. BMX controls sound reverberations to give playback a fuller sound. Listen to each of the effects as you select through them and use the one that best enhances the playback of the track or CD that you are listening to.

1 Press FUNC and then press NEXT.

2 Press COMP to select COMP mode.

English

3 Press COMP to select your favourite setting.
Press **COMP** repeatedly to switch between the following settings:
COMP OFF—**COMP 1**—**COMP 2**—**COMP OFF**—**BMX 1**—**BMX 2** ▣

Selecting the search method

You can switch the search method between fast forward/reverse and searching every 10 track.

1 Press FUNC and then press NEXT.

2 Press R.SRCH to select the search method mode.

3 Press R.SRCH to select the search method.
Press **R.SRCH** until the desired search method appears in the display.
- **FF/REV** – Fast forward and reverse
- **Rough search** – Searching every 10 track ▣

Searching every 10 track in the current disc

If a disc contains over 10 tracks, you can search every 10 track. When a disc contains a lot of tracks, you can roughly search the track you want to play.

1 Select the search method "Rough search".
Refer to *Selecting the search method* on this page.

2 Press and hold ◀ or ▶ to search every 10 track in a disc.
■ If a disc contains less than 10 tracks, pressing and holding ▶ recalls the last track of a disc. Also, if the remaining number of tracks after searching every 10 tracks are less than 10, pressing and holding ▶ recalls the last track of a disc.
■ If a disc contains less than 10 tracks, pressing and holding ◀ recalls the first track of a disc. Also, if the remaining number of tracks after searching every 10 tracks are less than 10, pressing and holding ◀ recalls the first track of a disc. ▣

Using disc title functions

You can input CD titles and display the title. The next time you insert a CD for which you have entered a title, the title of that CD will be displayed.

Entering disc titles

Disc title input lets you input CD titles up to 10 letters long and up to 48 disc titles into this product.
If you input a CD title, the entered title is displayed.

1 Play a CD that you want to enter the title.

2 Press FUNC and then press NEXT.

3 Press TTLin.
■ When playing a CD TEXT disc, "**Can't input**" is displayed and you cannot input the title. The disc title will have already been recorded on a CD TEXT disc.

4 Press ABC to select the desired character type.

Press **ABC** repeatedly to switch between the following character type:
Alphabet (upper case)—Alphabet (lower case)—European letters, such as those with accents (e.g. **á, à, ä, ç**)

■ You can select to input numbers and symbols by pressing **012**.

5 Press ▲ or ▼ to select a letter of the alphabet.

Each press of ▲ will display a letter of the alphabet in **A B C** ... **X Y Z**, numbers and symbols in **1 2 3** ... **@ # <** order. Each press of ▼ will display a letter in the reverse order, such as **Z Y X** ... **C B A** order.

6 Press ► to move the cursor to the next character position.

When the letter you want is displayed, press ► to move the cursor to the next position and then select the next letter. Press ◄ to move backwards in the display.

7 Move the cursor to the last position by pressing ► after entering the title.

When you press ► one more time, the entered title is stored in memory.

8 Press BAND/ESC to return to the playback display.

Notes

- Titles remain in memory, even after the disc has been removed from this product, and are recalled when the disc is reinserted.
- After the titles for 48 discs have been entered, the data for a new disc will overwrite the oldest one.

Switching and scrolling the title

When playing a CD TEXT disc, you can switch text display such as artist name and track title. You can also scroll the text.

1 Press TITLE to switch the title mode.

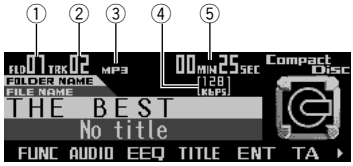
2 Press the corresponding button to display the desired title.

Button	Operation
TTL1	Displays disc title and track title.
TTL2	Displays disc title and disc artist name.
TTL3	Displays track title and track artist name.
SCROLL	Scrolls the displayed title.

Notes

- A CD TEXT disc is a CD featuring recorded text information such as disc title, artist name and track title.
- If you do not operate the function within about eight seconds, the display is automatically returned.
- The titles are displayed up to 24 letters long.
- If specific information has not been recorded on a CD TEXT disc, "**No XXXX**" will be displayed (e.g., **No artist name**).
- If you have not input disc titles, "**No title**" is displayed.
- When Ever-scroll is set to "**ON**" at the initial setting, CD text information scrolls continuously in the display. If you want to stop the scrolling display for the disc loaded, press **TITLE** and then press **SCROLL**. Just the first 24 characters of the text will be shown in the display. To switch off Ever-scroll completely, set Ever-scroll to "**OFF**" at the initial setting. To turn Ever-scroll setting on or off, refer to *Switching the Ever-scroll* on page 96. ■

Playing MP3/WMA/WAV



These are the basic steps necessary to play an MP3/WMA/WAV with your built-in CD player. More advanced MP3/WMA/WAV operation is explained in *Advanced built-in CD player (MP3/WMA/WAV) operation* starting on page 64.

① **Folder number indicator**
Shows the folder number currently playing.

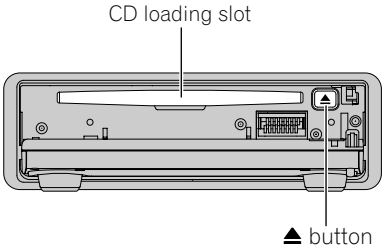
② **Track number indicator**
Shows the track (file) currently playing.

③ **MP3/WMA/WAV indicator**
Shows when the MP3/WMA/WAV file is playing.

④ **Bit rate indicator**
Shows the recorded bit rate of the file currently playing.

⑤ **Play time indicator**
Shows the elapsed playing time of the current track (file).

1 Press OPEN to open the front panel.
CD loading slot appears.



- If a navigation CD is in the loading slot, press the ⏏ button and remove it.
- After a CD has been inserted, press **SOURCE** to select the built-in CD player.
- The navigation CD must be inserted to start the route calculation. During the calculation, the prompt CD flashes on the display. Once the calculation has been completed, the prompt CD extinguishes, the navigation CD can be removed and an audio CD can be inserted.

⚠ WARNING

Do not use with the front panel left open. If the front panel is left open, it may result in injury in the event of an accident.

2 Insert a CD into the CD loading slot.
Playback will automatically start.
- You can eject a CD by pressing ⏏.
- To avoid a malfunction, make sure that no metal object comes into contact with the terminals when the front panel is open.

3 Close the front panel.

4 Use VOLUME to adjust the sound level.
Rotate to increase or decrease the volume.

5 Press ▲ or ▼ to select a folder.
- You cannot select a folder that does not have an MP3/WMA/WAV file recorded in it.
- To return to folder 01 (ROOT), press and hold **BAND/ESC**. However, if folder 01 (ROOT) contains no files, playback commences with folder 02.

6 To perform fast forward or reverse, press and hold ◀ or ▶.
- This is fast forward and reverse operation only for the file being played. This operation is cancelled when the previous or next file is reached.
- If you select the search method to "**Rough search**", pressing and holding ◀ or ▶ enables you to search every ten track in the current disc. (*Selecting the search method* on page 66.)

7 To skip back or forward to another track, press ◄ or ►.

Pressing ► skips to the start of the next track. Pressing ◄ once skips to the start of the current track. Pressing again will skip to the previous track.

Notes

- When playing discs with MP3/WMA/WAV files and audio data (CD-DA) such as CD-EXTRA and MIXED-MODE CDs, both types can be played only by switching mode between MP3/WMA/WAV and CD-DA with **BAND/ESC**.
- If you have switched between playback of MP3/WMA/WAV files and audio data (CDDA), playback starts at the first track on the disc.
- The built-in CD player can play back an MP3/WMA/WAV file recorded on CD-ROM. (Refer to *MP3, WMA and WAV files* on page 101 for files that can be played back.)
- There is sometimes a delay between starting up playback and the sound being issued. This is particularly the case when playing back multi-session and many folders.
- Playback is carried out in order of file number. Folders are skipped if they contain no files. (If folder 01 (ROOT) contains no files, playback commences with folder 02.)
- When playing back files recorded as VBR (variable bit rate) files, the play time will not be correctly displayed if fast forward or reverse operations are used.
- If the inserted disc contains WMA files that are protected by digital rights management (DRM) , "**TRACK SKIPPED**" is displayed while the protected file is skipped.
- If all the files on the inserted disc are secured by DRM, "**PROTECT**" is displayed.
- There is no sound on fast forward or reverse.
- When the front panel is open, multi-function buttons are not available.
- A disc left partially inserted after ejection may incur damage or fall out.
- If you cannot insert a disc completely or if after you insert a disc the disc does not play, check that the label side of the disc is up. Press ⏏ to eject the disc, and check the disc for damage before inserting the disc again.
- If the built-in CD player does not operate properly, an error message such as "**ERROR-11**" may be displayed. Refer to *Understanding built-in CD player error messages* on page 100.
- When an MP3/WMA/WAV disc is inserted, folder name and file name automatically begin to scroll in the display. When Ever-scroll is set to "**ON**" at the initial setting, folder and file name scroll continuously. About Ever-scroll, refer to *Switching the Ever-scroll* on page 96.
- After choosing your destination, press **INFO** and you can listen to the guide voice during navigation guidance. ▣

English

Advanced built-in CD player (MP3/WMA/WAV) operation

MP3/WMA/WAV function menu

The MP3/WMA/WAV function menu has the following functions:
RPT (repeat play)
RDM (random play)
SCAN (scan play)
F.LIST (folder/file list)
PAUSE (pause)
COMP (compression and BMX)
R.SRCH (search method)
T.READ (tag display)

1 Press FUNC to display the function names.

2 To return to the playback display, press BAND/ESC.

Note

If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display. ■

Repeating play

For MP3/WMA/WAV playback, there are three repeat play ranges: **Folder repeat** (folder repeat), **Track repeat** (one-track repeat) and **Disc repeat** (repeat all tracks).

1 Press FUNC to select the repeat mode.

2 Press RPT to select the repeat range.
Press **RPT** until the desired repeat range appears in the display.

- **Folder repeat** – Repeat the current folder
- **Track repeat** – Repeat just the current track
- **Disc repeat** – Repeat all tracks

Notes

- If you select another folder during repeat play, the repeat play range changes to **Disc repeat**.
- If you perform track search or fast forward/reverse during **Track repeat**, the repeat play range changes to **Folder repeat**.
- When Folder repeat is selected, it is not possible to play back a subfolder of that folder.
- When the repeat mode is exited, either "**T.RPT**" (one track repeat) or "**FOLDER RPT**" (folder repeat) may appear on the display. ■

Playing tracks in a random order

Random play lets you play back tracks in a random order within the repeat range, Folder repeat and Disc repeat.

1 Select the repeat range.
Refer to *Repeating play* on page 64.

2 Press FUNC and then press RDM to select the random mode.

3 Press RDM to turn random play on.
The light illuminates. Tracks will play in a random order within the previously selected **Folder repeat** or **Disc repeat**.
- To turn random play off, press **RDM** again.

Note

When the random mode is exited while random play is on, "**RDM**" appears on the basic display.

Scanning folders and tracks

While you are using **Folder repeat**, the beginning of each track in the selected folder plays for about 10 seconds. When you are using **Disc repeat**, the beginning of the first track of each folder is played for about 10 seconds.

1 Select the repeat range.
Refer to *Repeating play* on page 64.

2 Press FUNC and then SCAN to select the scan mode.

3 Press SCAN to turn scan play on.
The light illuminates.

4 When you find the desired track (or folder), press SCAN to turn scan play off.
The light goes off. The track (or folder) will continue to play.
- If the scan mode is automatically cancelled, select the scan mode again.

Notes

- After track or folder scanning is finished, normal playback of the tracks will begin again.
- When the scan mode is exited while scan play is on, "**SCAN**" appears on the basic display.

Selecting files from the folder/file name list

Folder/file name list lets you see the list of folder and files, and select one of them to play back.

1 Press FUNC and then press F.LIST to select folder/file name list mode.

2 Press NEXT until the desired folder title is displayed.
- If folders and files in the CD-ROM are less than 6, "**NEXT**" will not be displayed. Proceed to step 3.
- If selected folder contains no MP3, WMA or WAV file, you cannot select or open the folder.

3 Press the corresponding number button to select the desired folder or file name.
- When you have selected a file, that file will be played. When you have selected a folder, a list of

the files included in that folder will be displayed. Please search for the file you want to play by repeating steps 2 and 3.

You can return to the previous level by pressing **BACK**. Pressing **BACK** while showing the top level (root) list shows the function menu beneath the list.

Note

You can also use ◄, ►, ▲ (or **NAVI/OK**) to select and play the desired folder or file.

Pausing MP3/WMA/WAV playback

Pause lets you temporarily stop playback of the MP3/WMA/WAV.

1 Press FUNC and then press PAUSE to select the pause mode.

2 Press PAUSE to turn the pause on.

The light illuminates. Play of the current track pauses.

- To turn the pause off, press **PAUSE** again.

Notes

- You can also turn pause on or off by pressing **PAUSE** in the following display.

- When the pause mode is exited while pause is on, "**PAUSE**" is displayed in the basic display.

Using compression and BMX

Using the COMP (compression) and BMX functions let you adjust the sound playback quality of the CD player. Each of the functions has a two-step adjustment. The COMP function balances the output of louder and softer sounds at higher volumes. BMX controls sound reverberations to give playback a fuller sound. Listen to each of the effects as you select through them and use the one that best enhances the playback of the track or CD that you are listening to.

1 Press FUNC and then press NEXT.

2 Press COMP to select COMP mode.

3 Press COMP to select your favourite setting.

Press **COMP** repeatedly to switch between the following settings:

COMP OFF—COMP 1—COMP 2—COMP OFF—BMX 1—BMX 2

Selecting the search method

You can switch the search method between fast forward/reverse and searching every 10 track.

1 Press FUNC and then press NEXT.

2 Press R.SRCH to select the search method mode.

3 Press R.SRCH to select the search method.

Press **R.SRCH** until the desired search method appears in the display.

- **FF/REV** – Fast forward and reverse
- **Rough search** – Searching every 10 track

Searching every 10 track in the current folder

If the current folder contains over 10 tracks, you can search every 10 track. When the one folder contains a lot of tracks, you can roughly search the track you want to play.

1 Select the search method "Rough search".
Refer to *Selecting the search method* on page 66.

2 Press and hold ◀ or ▶ to search every 10 track in the current folder.

■ If the current folder contains less than 10 tracks, pressing and holding ▶ recalls the last track of the folder. Also, if the remaining number of tracks after searching every 10 tracks are less than 10, pressing and holding ▶ recalls the last track of the folder.

■ If a disc contains less than 10 tracks, pressing and holding ◀ recalls the first track of the folder. Also, if the remaining number of tracks after searching every 10 tracks are less than 10, pressing and holding ◀ recalls the first track of the folder. ▣

Switching and scrolling the title

Text information recorded on an MP3/WMA/WAV disc can be displayed. You can also scroll the text.

1 Press TITLE to switch the title mode.

2 Press the corresponding button to display the desired title.

Button	Operation
F+FIL	Displays folder name and file name.
FIL+T	Displays file name and track title.
ALB+T	Displays album title and track title.
TR+ART	Displays track title and track artist name.
SCROLL	Scrolls the displayed title.

Notes

- When playing back MP3 files recorded as VBR (variable bit rate) files, the bit rate value is not displayed even after switching to bit rate. (VBR will be displayed.)
- When playing back WMA files recorded as VBR (variable bit rate) files, the average bit rate value is displayed.
- In the case of MP3 file, turning off the tag display disables to read the text information. Therefore, the Track Title, the Artist Name and the Album Title fields show "**No xxxx**".
- With some applications used to encode WMA files, album names and other text information may not be correctly displayed.
- By WAV files, you can only scroll the text.
- Unlike MP3 and WMA file format, WAV files display only folder name and file name.
- If you do not operate the function within about eight seconds, the display is automatically returned.
- Text information is displayed up to 24 letters long.
- When Ever-scroll is set to "**ON**" at the initial setting, text information scrolls continuously in the display. If you want to stop the scrolling display for the disc loaded, press **TITLE** and then press **SCROLL**. Just the first 24 characters of the text will be shown in the display. To switch off Ever-scroll completely, set Ever-scroll to "**OFF**" at the initial setting. To turn Ever-scroll setting on or off, refer to *Switching the Ever-scroll* on page 96. ▣

Switching the tag display

It is possible to turn the tag display on or off, if MP3 disc contains text information such as track title and artist name.

- If you turn the tag display off, time to playback will be shorter than when this function is turned on.
- This function is available for MP3-tag (ID3 tag) only.

1 Press FUNC and then press NEXT.

2 Press T.READ to turn tag display on.

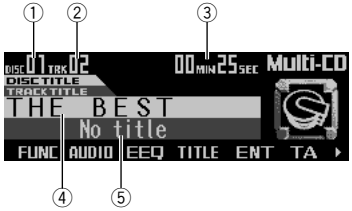
The light illuminates.

■ To turn the tag display off, press **T.READ** again.

Note

When you turn the tag display on, this product returns to the beginning of the current track in order to read the text information. ▣

Playing a CD



You can use this product to control a multi-CD player, which is sold separately.
More advanced CD operation is explained in *Advanced multi-CD player operation* starting on page 70.

① **Disc number indicator**
Shows the disc currently playing.

② **Track number indicator**
Shows the track currently playing.

③ **Play time indicator**
Shows the elapsed playing time of the current track.

④ **Disc title (if exists)**
Shows the title of the disc currently playing.

⑤ **Track title indicator (if exists)**
Shows the tittle of the track currently playing.

1 Press SOURCE until "Multi-CD" appears.

2 Use VOLUME to adjust the sound level.
Rotate to increase or decrease the volume.

3 Press ▲ or ▼ to select a disc.
Disc number for which no disc exists will be skipped.
■ You can use the buttons **1 – 6** (or **7 – 12**) to select a disc directly.

4 To perform fast forward or reverse, press and hold ◄ or ►.

5 To skip back or forward to another track, press ◄ or ►.
Pressing ► skips to the start of the next track. Pressing ◄ once skips to the start of the current track. Pressing again will skip to the previous track.

Notes

- When the multi-CD player performs the preparatory operations, "**Ready**" is displayed.
- If the multi-CD player does not operate properly, an error message such as "**ERROR-11**" may be displayed. Refer to *Understanding built-in CD player error messages* on page 100.
- If there are no discs in the multi-CD player magazine, "**No disc**" is displayed.
- When you select a disc which title has been entered, the disc title automatically begin to scroll on the display.
- When you select a CD TEXT disc on a CD TEXT compatible multi-CD player, the disc and track titles automatically begin to scroll in the display.
  When Ever-scroll is set to ON at the initial setting, the disc and track titles scroll continuously. About Ever-scroll, refer to *Switching the Ever-scroll* on page 96.
- After choosing your destination, press **INFO** and you can listen to the guide voice during navigation guidance. ▣

Selecting a disc directly

You can use the buttons **1 – 6** (or **7 – 12**) to select a disc directly.

1 Press NEXT until "1" – "6" (or "7" – "12") appears.

2 Press any of the buttons 1 – 6 (or 7 – 12) to select a disc located at 1 to 6 (or 7 to 12).

Note

You cannot display "**7**" – "**12**" when a 6-disc multi-CD player is connected.

50-disc multi-CD player

Only those functions described in this manual are supported for 50-disc multi-CD players. This product is not designed to operate disc title list functions with a 50-disc multi-CD player. About the disc title list funtions, please refer to *Selecting discs from the disc title list* on page 72.

Advanced multi-CD player operation

Multi-CD player function menu

The multi-CD player function menu has the following functions:
RPT (repeat play)
RDM (random play)
SCAN (scan play)
T.LIST (track title list)
D.LIST (disc title list)
PAUSE (pause)
TTLin (disc title input)
COMP (compression and DBE)
ITS.P (ITS play)
ITS.M (ITS programming)

1 Press FUNC to display the function names.

2 To return to the playback display, press BAND/ESC.

Notes

- If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display. (When you select the disc title input mode ("**TTLin**") or ITS programming mode ("**ITS.M**"), the display is not returned automatically.)
- "**T.LIST**" is displayed only when playing a CD TEXT disc on a CD TEXT compatible multi-CD player.

Repeating play

There are three repeat play ranges for the multi-CD player: **Magazine repeat** (multi-CD player repeat), **Track repeat** (one-track repeat) and **Disc repeat** (disc repeat).

1 Press FUNC to select the repeat mode.

2 Press RPT to select the repeat range.
Press **RPT** until the desired repeat range appears in the display.

- **Magazine repeat** – Repeat discs in the multi-CD player
- **Track repeat** – Repeat just the current track
- **Disc repeat** – Repeat the current disc

Notes

- If you select other discs during repeat play, the repeat play range changes to **Magazine repeat**.
- If you perform track search or fast forward/reverse during **Track repeat**, the repeat play range changes to **Disc repeat**.
- When the repeat mode is existed, either "**T.RPT**" (one track repeat) or "**D.RPT**" (disc repeat) may appear on the display.
  - "**T.RPT**" appears while the one-track repeat is selected.
  - "**D.RPT**" appears while the disc repeat is selected. ▣

Playing tracks in a random order

Random play lets you play back tracks in a random order within the repeat range, **Disc repeat** and **Magazine repeat**.

1 Select the repeat range.
Refer to *Repeating play* on this page.

2 Press FUNC and then press RDM to select the random mode.

3 Press RDM to turn random play on.
The light illuminates. Tracks will play in a random order within the previously selected **Magazine repeat** or **Disc repeat** ranges.

■ Press **RDM** again to turn random play off.

Note

When the random mode is exited while random play is on, "**RDM**" appears on the basic display. ▣

Scanning CDs and tracks

While you are using **Disc repeat**, the beginning of each track on the selected disc plays for about 10 seconds. When you are using **Magazine repeat**, the beginning of the first track of each disc is played for about 10 seconds.

1 Select the repeat range.
Refer to *Repeating play* on this page.

2 Press FUNC and then press SCAN to select the scan mode.

3 Press SCAN to turn scan play on.
The light illuminates. The first 10 seconds of each track of the current disc (or the first track of each disc) are played.

4 When you find the desired track (or disc), press SCAN to turn scan play off.
The light goes off. The track (or disc) will continue to play.
■ If the scan mode is automatically cancelled, select the scan mode again.

Notes

- After track or disc scanning is finished, normal playback of the tracks will begin again.
- When the scan mode is exited while scan play is on, "**SCAN**" appears on the basic display. ▣

Selecting tracks from the track title list

The track title list lets you see the list of track titles on a CD TEXT disc and select one of them for playback.

1 Press FUNC and then press T.LIST to select the track title list mode.

2 Press NEXT until the desired track title appears.

3 Press the corresponding number button to select the desired track title.
That selection will begin to play.

Notes

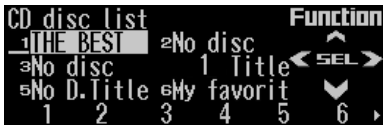
- You can also use ◀, ▶, ▲ (or **NAVI/OK**) to select and play the desired track title.
- Only when playing a CD TEXT disc on a CD TEXT compatible multi-CD player, you can switch to this mode. ▣

Selecting discs from the disc title list

The disc title list lets you see the list of disc titles and select one of them for playback. Displayed disc titles are those which have been entered into the multi-CD player or recorded on a CD TEXT disc.

1 Press FUNC and then press D.LIST to select the disc title list mode.

2 Press NEXT to switch between "1" – "6" and "7" – "12".



3 Press any of the buttons 1 – 6 (or 7 – 12) to select the desired disc title.
That selection will begin to play.

Notes

- You can also use ◀, ▶, ▲ (or **NAVI/OK**) to select and play the desired disc title.
- "**No disc**" is displayed next to the disc number when no disc is set in the magazine.
- If no title has been entered for a disc, "**No D.Title**" will be displayed.
- You cannot display "**7**" – "**12**" when a 6-disc multi-CD player is connected. ▣

Pausing CD playback

Pause lets you temporarily stop playback of the CD.

1 Press FUNC and then press PAUSE to select the pause mode.

2 Press PAUSE to turn the pause on.
The light illuminates. Play of the current track pauses.
- To turn the pause off, press **PAUSE** again.
- When the pause mode is exited while pause is on, "**PAUSE**" is displayed in the basic display.

Note

You can also turn pause on or off by pressing **PAUSE** in the following display.

Using disc title functions

You can input CD titles and display the title. Then you can easily search for and select a desired disc for play.

Entering disc titles

Disc title input lets you input CD titles up to 10 letters long and up to 100 disc titles (with ITS playlist) into the multi-CD player.
If you input a CD title, the entered title is displayed.

1 Play a CD that you want to enter the title.
Press ▲ or ▼ to select the CD.

2 Press FUNC and then press NEXT.

3 Press TTLin.
When playing a CD TEXT disc on a CD TEXT compatible multi-CD player, if you switch to this mode, "**Can't input**" is displayed and you cannot input the title.
The disc tittle will have already been recorded on a CD TEXT disc.

4 Press ABC to select the desired character type.
Press **ABC** repeatedly to switch between the following character type:
Alphabet (upper case)—Alphabet (lower case)—European letters, such as those with accents (e.g. **á, à, ä, ç**)
- You can select to input numbers and symbols by pressing **012**.

5 Press ▲ or ▼ to select a letter of the alphabet.
Each press of ▲ will display a letter of the alphabet in **A B C** ... **X Y Z**, numbers and symbols in **1 2 3** ... **@ # <** order. Each press of ▼ will display a letter in the reverse order, such as **Z Y X** ... **C B A** order.

6 Press ► to move the cursor to the next character position.
When the letter you want is displayed, press ► to move the cursor to the next position and then select the next letter. Press ◄ to move backwards in the display.

7 Move the cursor to the last position by pressing ► after entering the title.
When you press ► one more time, the entered title is stored in memory.

8 Press BAND/ESC to return to the playback display.

Notes

- Titles remain in memory, even after the disc has been removed from the magazine, and are recalled when the disc is reinserted.

- After the titles for 100 discs have been entered, the data for a new disc will overwrite the oldest one.

Switching and scrolling the title

When playing a CD TEXT disc or a disc with a disc title, you can switch text display such as artist name and track title. You can also scroll the text.

1 Press TITLE to switch the title mode.

2 Press the corresponding button to display the desired title.

Button	Operation
TTL1	Displays disc title and track title.
TTL2	Displays disc title and disc artist name.
TTL3	Displays track title and track artist name.
SCROLL	Scrolls the displayed title.

Notes

- A CD TEXT disc is a CD featuring recorded text information such as disc title, artist name and track title.
- You can use these functions only with a CD TEXT compatible multi-CD player.
- If you do not operate the function within about eight seconds, the display is automatically returned.
- The titles are displayed up to 24 letters long.
- If specific information has not been recorded on a CD TEXT disc, "**No XXXX**" will be displayed (e.g., **No artist name**).
- If you have not input disc titles, "**No title**" is displayed.
- When Ever-scroll is set to "**ON**" at the initial setting, CD text information scrolls continuously in the display. Just the first 24 characters of the text will be shown in the display. To switch off Ever-scroll completely, set Ever-scroll to "**OFF**" at the initial setting. To turn Ever-scroll setting on or off, refer to *Switching the Ever-scroll* on page 96.

Using compression and bass emphasis

You can use these functions only with a multi-CD player that supports them.

Using the COMP (compression) and DBE (dynamic bass emphasis) functions let you adjust the sound playback quality of the multi-CD player. Each of the functions has a two-step adjustment. The COMP function balances the output of louder and softer sounds at higher volumes. DBE boosts bass levels to give playback a fuller sound. Listen to each of the effects as you select through them and use the one that best enhances the playback of the track or CD that you are listening to.

1 Press FUNC and then press NEXT.

2 Press COMP to select COMP mode.

- If the multi-CD player does not support COMP/DBE, "**No Comp.**" is displayed when you attempt to select it.

3 Press COMP to select your favourite setting.

Press **COMP** repeatedly to switch between the following settings:

COMP OFF—COMP 1—COMP 2—COMP OFF—DBE 1—DBE 2

Using ITS playlists

ITS (instant track selection) lets you make a playlist of favourite tracks from those in the multi-CD player magazine. After you have added your favourite tracks to the playlist you can turn on ITS play and play just those selections.

Creating a playlist with ITS programming

You can use ITS to enter and playback up to 99 tracks per disc, up to 100 discs (with the disc title). (With multi-CD players sold before the CDX-P1250 and CDX-P650, up to 24 tracks can be stored in the playlist.)

1 Play a CD that you want to programme.
Press ▲ or ▼ to select the CD.

2 Press FUNC and then press NEXT.

3 Press ITS.M to select the ITS programming mode.

4 Select the desired track by pressing ◄ or ►.

5 Press MEMO to store the currently playing track in the playlist.
"**Memory complete**" is displayed briefly and the currently playing selection is added to your playlist.
- You can also use ▲ to store the currently playing track in the playlist.

6 Press BAND/ESC to return to the playback display.

Note

After data for 100 discs has been stored in memory, data for a new disc will overwrite the oldest one.

Playback from your ITS playlist

ITS play lets you listen to the tracks that you have entered into your ITS playlist. When you turn on ITS play, tracks from your ITS playlist in the multi-CD player will begin to play.

1 Select the repeat range.
Refer to *Repeating play* on page 71.

2 Press FUNC and then press NEXT.

3 Press ITS.P to select the ITS play mode.

4 Press ITS.P to turn ITS play on.
The light illuminates. Playback begins of those tracks from your playlist within the previously selected **Magazine repeat** or **Disc repeat** ranges.
- To turn ITS play off, press **ITS.P** again.

Erasing a track from your ITS playlist

When you want to delete a track from your ITS playlist, you can if ITS play is on.
If ITS play is already on, skip to step 2. If ITS play is not already on, press **FUNC**.

1 Play a CD you want to delete a track from your ITS playlist, and turn ITS play on.
Refer to *Playback from your ITS playlist* on this page.

2 Press FUNC and then press NEXT.

3 Press ITS.M to select the ITS programming mode.

4 Select the desired track by pressing ◄ or ►.

5 Press CLEAR to erase the track from your ITS playlist.

The currently playing selection is erased from your ITS playlist and playback of the next track from your ITS playlist begins.

- You can also use ▼ to erase a track currently playing from ITS playlist.
- If there are no tracks from your playlist in the current range, "**ITS empty**" is displayed and normal play resumes.

6 Press BAND/ESC to return to the playback display.

Erasing a CD from your ITS playlist

When you want to delete all tracks of a CD from your ITS playlist, you can if ITS play is off.

1 Play a CD that you want to delete.
Press ▲ or ▼ to select the CD.

2 Press FUNC and then press NEXT.

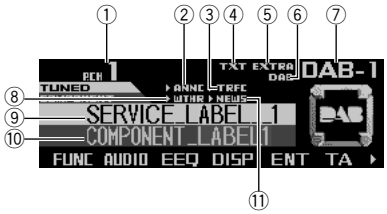
3 Press ITS.M to select the ITS programming mode.

4 Press CLEAR to erase all tracks on the currently playing CD from your ITS playlist.
All tracks on the currently playing CD are erased from your playlist and "**Memory deleted**" is displayed.

- You can also use ▼ to erase all tracks on the CD currently playing from ITS playlist.

5 Press BAND/ESC to return to the playback display. ▣

Listening to the DAB



You can use this product to control a DAB tuner (GEX-P700DAB), which is sold separately.
For details concerning operation, refer to the DAB tuner's operation manuals.
This section provides information on DAB operations with this product which differs from that described in the DAB tuner's operation manual.

- This product does not have the following two functions:
  — *Language Filter Function*
  — *Using the PGM button*

① **Preset number**

② **ANNC indicator**
Shows when announce is received.

③ **TRFC indicator**
Shows when traffic announcement is received.

④ **TXT indicator**
Shows that the currently received service has a dynamic revel.

⑤ **EXTRA indicator**
Shows that the currently received service has a secondary service component.

⑥ **DAB indicator**
Shows when DAB reception is possible.

⑦ **Band indicator**
Shows which band the DAB tuner is tuned to.

⑧ **WTHR indicator**
Shows when area weather flash is received.

⑨ **Service label indicator**
Shows the service the DAB tuner is tuned to.

⑩ **Service component label indicator**
Shows the service component the DAB tuner is tuned to.

⑪ **NEWS indicator**
Shows when news announcement is received.

Notes

- When the initial of each Announcement indicator is displayed, it indicates that you have selected the Announcement Support (e.g. "**N**" in "**NEWS**").
- When "▶" is displayed on the left side of indicator, it indicates that Announcement corresponding to the Announcement Support you have selected is supported by the current Service Component.

Operation

1 Press SOURCE until "DAB" appears.

2 Use VOLUME to adjust the sound level.

3 Press BAND/ESC to select the desired band.
Press **BAND/ESC** repeatedly to switch between the following bands:
DAB–1—**DAB–2**—**DAB–3**

4 Press ◀ or ▶ to select a service.

5 Press and hold ◄ or ► for one second and release to select an ensemble. ▣

Storing and recalling the service

1 Press NEXT until "1" – "6" appear.

2 When you find a service that you want to store in memory, press and hold any of a preset tuning button 1 – 6 until the preset number stops flashing.
The service has been stored in memory at the selected button.
The next time you press the same preset tuning button **1 – 6**, the stored service is recalled from memory.

Note

You can also use ▲ and ▼ to recall DAB station frequencies assigned to preset tuning button 1-6. ▣

Changing the label

● **Press DISP to select the desired display.**
Each press of **DISP** changes the display in the following order:
SERVICE (service label) and **COMPONENT** (service component label)—**D.TEXT** (dynamic label segment head line)—**SERVICE** (service label) and **ENSEMBLE** (ensemble label)—**SERVICE** (service label) and **PTY** (PTY label)

Notes

- "**TUNED**" shows the service currently received.
- With a service component that has no service component label or dynamic label, the display will be blank when you switch to service component label and dynamic label. ▣

Receiving the road traffic flash and transport flash

● **Press TA to turn road traffic flash and transport flash on.**
"►**TRFC**" or "**T**" appears on the display.
■ To turn the road traffic flash and transport flash off, press **TA** again.
■ Press **TA** while the road traffic flash and transport flash are being received to cancel the announcement interruption. ▣

Receiving news flash

● **Press NEWS to turn news flash on.**
"►**NEWS**" or "**N**" appears on the display.
■ To turn news flash off, press **NEWS** again. ▣

Using dynamic label

Dynamic label provides character information concerning the service component you're currently listening to.

Notes

- The tuner automatically memorises the three latest dynamic labels received, replacing text from the least recent reception with new text when it is received.
- You can store data from up to six dynamic label transmissions in buttons **MEMO1** – **MEMO6**.
- When no dynamic label is currently being received, "**No text**" is displayed.

Displaying dynamic label

1 Press NEXT until "D.TEXT" appears.

2 Press D.TEXT to switch to the dynamic label mode.

3 Press ◄ or ► to recall the three most recent dynamic labels.
Pressing ◄ or ► switches between the current and the three dynamic label data displays.
■ If there is no dynamic label data in memory the display will not change.

Notes

- Press **BAND/ESC** to cancel the dynamic label mode.
- If there is no dynamic label data stored in the tuner, ◄ and ► do not operate.

Storing and recalling dynamic label

You can store data from up to six dynamic label transmissions at **MEMO1** – **MEMO6**.

1 Display the dynamic label you want to store in memory.
Refer to *Displaying dynamic label* on this page.

2 To store the desired dynamic label, press and hold any of the buttons MEMO1 – MEMO6 until "DAB memo" appears.
The next time you press the same **MEMO1** – **MEMO6** button in the dynamic label display the stored text is recalled from memory.

Advanced DAB tuner operation

DAB tuner function menu

The DAB tuner function menu has the following functions:
AS (announce support)
ch LIST (preset service list)
S.LIST (available service list)
PTY (available PTY search)
P/2ND (primary/secondary)
SF (service follow)

1 Press FUNC to display the function menu.

2 To return to the frequency display, press BAND/ESC.

Note

If you do not operate the function within about 30 seconds, the display is automatically returned.

English

Setting the announcement support interruption

1 Press FUNC and then press AS to select the announcement support mode.

2 Press the corresponding button to turn the desired announcement support on.

Button	Announcement
WTHR	Area weather flash
ANNC	Announcement

Notes

- When Announce is on, Warning/service, Event announcement, Special event, Finance, Sports and Information are also turned on.
- You can also use ◀, ▶, ▲ and ▼ to select and turn on the desired announcement. ▣

Switching the service follow

1 Press FUNC and then press SF.

2 Press SF to turn on service follow.

■ To turn off service follow, press **SF** again. ▣

Switching primary or secondary service component

1 Press FUNC and then press P/2ND.

2 Press P/2ND repeatedly until the desired service component appears in the display. ▣

Searching for service by available PTY information

Available PTY search lets you see the list of available PTYs that is in the current ensemble and select one of them to receive.

- If there is no available PTY in the current ensemble, you cannot switch to the available PTY search mode.
- Available PTY search function is different from PTY search function. With this product, you can operate only the available PTY search.

1 Press FUNC and then press PTY to select the available PTY search mode.

2 Press ◀ or ▶ to select the desired PTY.

3 Press ▲ to start the PTY search.

DAB receives the desired PTY service.

■ You can also use **NAVI/OK** to start the PTY search.

Notes

- The PTY method displayed is narrow. The wide method cannot be selected when using DAB as source. (Refer to *PTY list* on page 55.)
- If no service broadcasting of the selected programming type is found, "**Not found**" is displayed briefly, and the DAB tuner returns to the previous service.

Selecting services from the preset service list

1 Press FUNC and then press ch LIST to select the preset service list mode.

2 Press any of the buttons 1 – 6 to recall the desired service.

Note

- You can also use ◀, ▶ and ▲ to select and recall the desired service.

Selecting services from the available service list

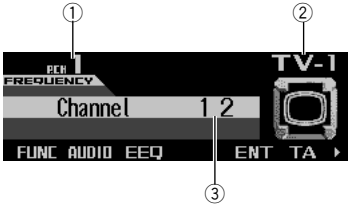
The available service list lets you see the list of available services and select one of them to receive, if the currently received ensemble has multiple services.

1 Press FUNC and then press S.LIST to select the available service list mode.

2 Press ◀ or ▶ to select the desired service.

3 Press ▲ to receive the selected service.

Using the TV tuner



You can use this product to control a TV tuner, which is sold separately.
For details concerning operation, refer to the TV tuner's operation manuals. This section provides information on TV operations with this product which differs from that described in the TV tuner's operation manual.

① **Preset number indicator**
Shows what preset has been selected.

② **Band**
Shows which band the TV tuner is tuned to.

③ **Channel indicator**
Shows which channel the TV tuner is tuned.

Operation

1 Press SOURCE until "Television" appears.

2 Use VOLUME to adjust the sound level.

3 Press BAND/ESC to select the desired band.
Press **BAND/ESC** repeatedly to switch between the following bands:
TV–1—TV–2

4 To perform manual tuning, press ◄ or ► briefly.

5 To perform seek tuning, press and hold ◄ or ► for about one second and release.
■ You can cancel seek tuning by pressing either ◄ or ► briefly. ▣

Storing and recalling broadcast stations

If you press any of the buttons **1 – 6** (or **7 – 12**), you can easily store up to 12 broadcast stations for later recall.

1 Press NEXT until "1" – "6" or "7" – "12" appear.

2 When you find a station that you want to store in memory, press and hold any of the buttons 1 – 6 (or 7 – 12) until the preset number stops flashing.
The station is stored in memory at the selected button.
The next time you press the same preset tuning button **1 – 6**, the stored station is recalled from memory.

Notes

- Up to 12 stations, 6 for each of two TV bands can be stored in memory.
- You can also use ▲ and ▼ to recall broadcast stations assigned to preset tuning buttons **1 – 6** and **7 – 12**. ▣

English

Advanced TV tuner operation

TV tuner function menu

The TV tuner function menu has the following functions:
BSSM (best stations sequential memory)
ch LIST (preset channel list)

1 Press FUNC to display the function menu.

2 To return to the frequency display, press BAND/ESC.

Storing the strongest broadcast stations sequentially

1 Press FUNC and then press BSSM to select the best stations sequential memory mode.

2 Press BSSM.
"**Searching**" appears. The 12 strongest broadcast stations will be stored under the buttons **1 – 12** and in order from the lowest channel up. When finished, "**Searching**" disappears.
- To cancel the storage process, press **BSSM** again while "**Searching**" appears.

Note

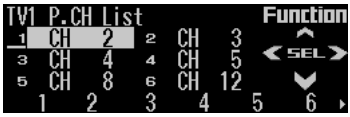
Storing broadcast stations with BSSM may replace broadcasting stations you have saved using the buttons **1 – 12**.

Selecting channels from the preset channel list

The preset channel list lets you see the list of preset channels and select one of them to receive.

1 Press FUNC and then press ch LIST to select the preset channel list mode.

2 Press NEXT to switch between 1 – 6 and 7 – 12.



3 Press any of the buttons 1 – 6 or 7 – 12 to recall the desired channel.

Note

You can also use ◀ and ▶ to select and ▲ to recall the desired channel.

Using the equaliser

The equaliser lets you adjust the equalisation to match vehicle interior acoustic characteristics as desired.

Recalling equaliser curves

There are six stored equaliser curves which you can easily recall at any time.

1 Press EEQ to switch to the easy equaliser mode.

2 Press the corresponding button to select the desired equaliser curve
Here is a list of the equaliser curves:

Display	Equaliser curve
FLAT	Flat
S.BASS	Super bass
PWRFL	Powerful
NATRL	Natural
VOCAL	Vocal
CUSTM	Custom

- **CUSTM** is an adjusted equaliser curve that you create.
- A separate **CUSTM** curve can be created for each source. (The built-in CD player and the multi-CD player are set to the same equaliser adjustment setting automatically.) If you make adjustments, the equaliser curve settings will be memorised in "**CUSTM**".
- When "**FLAT**" is selected no supplement or correction is made to the sound. This is useful to check the effect of the equaliser curves by switching alternatively between "**FLAT**" and a set equaliser curve.

Note

You can also use ◀ and ▶ to select the desired equaliser curve. ▣

Introduction of audio adjustments

Audio menu

The audio menu has the following functions:
F/B (balance adjustment)
EQ (equaliser curve adjustment)
BASS (bass level adjustment)
TREBLE (treble level adjustment)
LOUD (loudness)
ASL (automatic sound leveliser)
SW 1 (subwoofer on/off setting) or **NoFAD1** (nonfading output on/off setting)
SW 2 (subwoofer setting) or **NoFAD2** (nonfading output setting)
HPF (high pass filter)
SLA (source level adjustment)
EQ-EX
SFEQ (sound focus equaliser setting)

- If **EQ-EX** function has been selected and only when **EQ-EX** is turned on and "**CUSTM**" is selected as the equaliser curve, you can switch to "**BASS**" and "**TREBLE**".
- Only when the subwoofer controller setting is "**FULL Preout :FULL**", you cannot switch to "**SW 1**". (Refer to *Setting the rear output and subwoofer controller* on page 94.)
- You can select "**SW 2**" only when subwoofer output is turned on in the "**SW 1**".

■ Only when the subwoofer controller setting is "**FULL Preout :FULL**", you can switch to the nonfading output on/off setting. (Refer to *Setting the rear output and subwoofer controller* on page 94.)
■ You can select the nonfading output setting ("**NoFAD2**") only when nonfading output is turned on in the nonfading output on/off setting.
■ When selecting the FM tuner as the source, you cannot switch to "**SLA**".

1 Press AUDIO to display the audio function names.

2 To return to the display of each source, press BAND/ESC.

Note

If you do not operate the audio function within about 30 seconds, the display is automatically returned to the source display.

Compensating for equaliser curves (EQ-EX)

The EQ-EX function smoothes the effects of each equaliser curve. Furthermore, you can adjust bass and treble for each source when **CUSTM** curve is selected.

1 Press AUDIO and then press NEXT.

2 Press EQ-EX to select the EQ-EX on/off mode.

3 Press EQ-EX to turn EQ-EX on.
"**EQ-EX ON**" appears in the display. EQ-EX is now on.
■ To turn EQ-EX off, press **EQ-EX** again.

Setting the sound focus equaliser (SFEQ)

Clarifying the sound image of vocals and instruments allows the simple staging of a natural, pleasant sound environment. Even greater listening enjoyment will be obtained if seating positions are chosen carefully.
FRT1 boosts the treble on the front output and the bass on the rear output. **FRT2** boosts the treble and the bass on the front output and the bass on the rear output. (The bass boost is the same for both front and rear.) For both **FRT1** and **FRT2**, **H** setting provides a more pronounced effect than **L** setting.

1 Press AUDIO and then press NEXT.

2 Press SFEQ.

3 Press the corresponding button to select the desired setting.

Display	Setting
OFF	Off
FRT1-H	Front 1-high
FRT1-L	Front 1-low
FRT2-H	Front 2-high
FRT2-L	Front 2-low
CUSTM	Custom

4 Press ◀ or ▶ to select the desired position.
Press ◀ or ▶ until the desired position appears in the display.
LEFT (left)—**CENTER** (centre)—**RIGHT** (right)

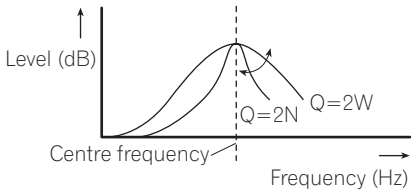
Notes

- If you adjust the bass or treble, **CUSTM** memorises an SFEQ setting in which the bass and treble are adjusted for personal preference.

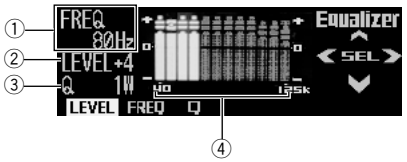
- If you switch the SFEQ setting, the HPF function is automatically turned off. By turning the HPF function on after selecting the SFEQ setting, you can combine HPF function with SFEQ function.

Adjusting equaliser curves

You can adjust the currently selected equaliser curve setting as desired. Adjusted equaliser curve settings are memorised in **CUSTM**.
You can adjust the centre frequency and the Q factor (curve characteristics) of each currently selected curve band (low, mid, high).



1 Press AUDIO and then press EQ.



① Centre frequency
② Level (dB)
③ Q factor
④ Each band (low, mid, high)

2 Press ◄ or ► to select the equaliser band to adjust.
Each press of ◄ or ► selects equaliser bands in the following order:
Low—**Mid**—**High**

3 Press FREQ and then press ▲ or ▼ to select the desired centre frequency.
Press ▲ or ▼ until the desired centre frequency appears in the display.
Low: **40**—**80**—**100**—**160** (Hz)
Mid: **200**—**500**—**1k**—**2k** (Hz)
High: **3.15k**—**8k**—**10k**—**12.5k** (Hz)

4 Press LEVEL and then press ▲ or ▼ to adjust the level of the equaliser band.
Each press of ▲ or ▼ increases or decreases the level of the equalisation band.
"**+6**" – "**–6**" is displayed as the level is increased or decreased.

5 Press Q and then press ▲ or ▼ to select the desired Q factor.
Press ▲ or ▼ until the desired Q factor appears in the display.
2N—**1N**—**1W**—**2W**

Note

If you make adjustments, **CUSTM** curve is updated. ▣

Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

1 Press AUDIO to select F/B (fader/balance).

2 Press ▲ or ▼ to adjust front/rear speaker balance.
Each press of ▲ or ▼ moves the front/rear speaker balance towards the front or the rear.
- "**FADER F15**" – "**FADER R15**" is displayed as the front/rear speaker balance moves from front to rear.
- "**FADER FR00**" is the proper setting when only two speakers are used.
- When the **REAR** setting is "**SUB.W**", you cannot adjust front/rear speaker balance. Refer to

Setting the rear output and subwoofer controller on page 94.

3 Press ◄ or ► to adjust left/right speaker balance.
Each press of ◄ or ► moves the left/right speaker balance towards the left or the right.
■ "**BALANCE L09**" – "**BALANCE R09**" is displayed as the left/right speaker balance moves from left to right. ▣

Adjusting bass and treble

Use this function to adjust the bass and treble. The ability to select the frequency as well as the level gives you good control over the tonal balance of the audio.

- If EQ-EX function has been selected and only when EQ-EX is turned on and "**CUSTM**" is selected as the equaliser curve, you can adjust bass and treble settings.
- If SFEQ has been set to "**FRT1**", bass adjustment affects only the rear output: front output cannot be adjusted.
- If SFEQ has been set to "**FRT1**" or "**FRT2**", treble adjustment affects only the front output: rear output cannot be adjusted.

Using bass adjustment

You can adjust the frequency and the bass level.

1 Press AUDIO and then press BASS to select the bass adjustment mode.

2 Select the desired frequency with ◄ or ►.
Press ◄ or ► until the desired frequency appears in the display.
40—**63**—**100**—**160** (Hz)

3 Press ▲ or ▼ to adjust the bass level.
Each press of ▲ or ▼ increases or decreases the bass level. "**+6**" – "**–6**" is displayed as the level is increased or decreased.

Note
The level adjustment is valid only for the frequency selected in step 2.

Using treble adjustment

You can adjust the frequency and the treble level.

1 Press AUDIO and then press TREBLE to select the treble adjustment mode.

2 Select the desired frequency with ◄ or ►.
Press ◄ or ► until the desired frequency appears in the display.
2.5k—**4k**—**6.3k**—**10k** (Hz)

3 Press ▲ or ▼ to adjust the treble level.
Each press of ▲ or ▼ increases or decreases the treble level. "**+6**" – "**–6**" is displayed as the level is increased or decreased.

Note
The level adjustment is valid only for the frequency selected in step 2. ▣

Using loudness adjustment

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1 Press AUDIO and then press LOUD to select the loudness mode.
Loudness level (e.g., "**MID**") appears in the display.

2 Press LOUD to turn the loudness on.
"**LOUDNESS ON**" appears in the display.
- Press **LOUD** again to turn loudness off.

3 Select the desired level with ◄ or ►.
Press ◄ or ► until the desired level appears in the display.
LOW—**MID**—**HIGH** ▣

Using subwoofer output

This product is equipped with a subwoofer output which can be switched on or off. When a subwoofer is connected to the rear output, first, switch the rear output setting to "**SUB.W**", then turn the subwoofer output on. For more details, refer to *Setting the rear output and subwoofer controller* on page 94.

1 Press AUDIO and then press NEXT.

2 Press SW 1 to select the subwoofer output mode.
- When the subwoofer controller setting is "**FULL Preout :FULL**", you cannot select "**SW 1**".

3 Press SW 1 to turn the subwoofer output on.
"**SUB. W ON**" appears in the display.
- Press **SW 1** again to turn subwoofer output off.

4 Press ◄ or ► to select the phase of subwoofer output.
Press ◄ to select reverse phase and the speaker appears facing downward. Press ► to select normal phase and the speaker appears facing upward.

Adjusting subwoofer settings

When the subwoofer output is on, you can adjust the cut-off frequency and the output level of the subwoofer.

1 Press AUDIO and then press NEXT.

2 Press SW 2 to select the subwoofer setting mode.
- When the subwoofer output is on, you can select **SW 2**.

3 Press ◄ or ► to select cut-off frequency.
Each press of ◄ or ► selects cut-off frequencies in the following order:
50—**80**—**125** (Hz)
Only frequencies lower than those in the selected range are output from the subwoofer (low pass filter).

4 Press ▲ or ▼ to adjust the output level of the subwoofer.
Each press of ▲ or ▼ increases or decreases the level of the subwoofer. "**+6**" – "**–6**" is displayed as the level is increased or decreased. ▣

Using nonfading output

When the non fading output setting is on, the audio signal does not pass through this product's low pass filter (for the subwoofer), but is output through the RCA output.

1 Press AUDIO and then press NEXT.

2 Press NoFAD1 to select nonfading output on/off setting mode.
- Only when the subwoofer controller setting is "**FULL Preout :FULL**", you can switch to the nonfading output on/off setting. (Refer to *Setting the rear output and subwoofer controller* on page 94.)

3 Press NoFAD1 to turn nonfading output on.
"**NON FAD ON**" appears in the display.
■ Press **NoFAD1** again to turn nonfading output off.

Adjusting nonfading output level

When the nonfading output is on, you can adjust the level of nonfading output.

1 Press AUDIO and then press NEXT.

2 Press NoFAD2 to select nonfading output setting.
When the nonfading output is on, you can select "**NoFAD2**".

3 Press ▲ or ▼ to adjust the output level of the nonfading.
Each press of ▲ or ▼ increases or decreases the level of the non fading. "**+6**" – "**–6**" is displayed as the level is increased or decreased. ▣

Using the high pass filter

When you do not want low sounds from the subwoofer output frequency range to play from the front or rear speakers, turn on the HPF (high pass filter). Only frequencies higher than those in the selected range are outputted from the front or rear speakers.

1 Press AUDIO and then press NEXT.

2 Press HPF to select high pass filter mode.

3 Press HPF to turn high pass filter on.
"**HPF ON**" appears in the display.
■ Press **HPF** again to turn high pass filter off.

4 Press ◀ or ▶ to select cut-off frequency.
Each press of ◀ or ▶ selects cut-off frequencies in the following order:
50—**80**—**125** (Hz)
Only frequencies higher than those in the selected range are outputted from the front or rear speakers.

Note

If you switch the SFEQ setting, the HPF function is automatically turned off. By turning the HPF function on after selecting the SFEQ setting, you can combine HPF function with SFEQ function. ▣

Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.
- Settings are based on the FM tuner volume level, which remains unchanged.

1 Compare the FM tuner volume level with the level of the source you wish to adjust.

2 Press AUDIO and then press NEXT.

3 Press SLA to select the SLA mode.

4 Press ▲ or ▼ to adjust the source volume.
Each press of ▲ or ▼ increases or decreases the source volume.
"**+4**" – "**–4**" is displayed as the source volume is increased or decreased.

Notes

- The MW/LW tuner volume level can also be adjusted with source level adjustments.
- The built-in CD player and the multi-CD player are set to the same source level adjustment volume automatically.
- External unit 1 and external unit 2 are set to the same source level adjustment volume automatically. ▣

Using automatic sound leveliser

During driving, noise in the vehicle changes according to the driving speed and road conditions. The automatic sound leveliser (ASL) monitors such varying noise and automatically increases the volume level, if this noise becomes greater. This function controls not only audio sources, but also the guidance voice of navigation.

Adjusting ASL for audio volume

You can adjust the automatic sound leveliser for audio source volume. The sensitivity (variation of volume level to noise level) of ASL can be set to one of five levels.

1 Press AUDIO and then press ASL to select the ASL mode.

2 Press AUDIO to select the ASL setting mode for audio volume.

3 Press ▲ to turn ASL on.

"**ASL ON**" and "**LEVEL Mid**" appears in the display.

- To turn ASL off, press ▼.

4 Press ◀ or ▶ to select the desired ASL level.

Each press of ◀ or ▶ selects ASL level in the following order:

Low (low)—**Mid-Low** (mid-low)—**Mid** (mid)—**Mid-High** (mid-high)—**High** (high)

Adjusting ASL for guidance volume

You can switch on or off the automatic sound leveliser for the navigation guidance volume.

1 Press AUDIO and then press ASL to select the ASL mode.

2 Press GUIDE to select the ASL setting mode for navigation.

3 Press ▲ to turn ASL on.

- To turn ASL off, press ▼. ▣

Adjusting initial settings

The initial settings menu has the following functions:
REV (reverse demo)
F.DEMO (feature demo)
AUX (auxiliary input)
G.ANI (guide animation)
MUTE.S (mute setting)
M.LAN (multi language setting)
FM step (FM tuning step)
G.MIX (guide mixing)
N.INT (navigation intercept)
REAR (rear output and subwoofer controller)
D.ILM (illumination colour)
A.PI (auto PL seek)
TEL1 (hands free telephoning)
TEL2 (telephone standby)
SCROLL (ever-scroll)

Use the following instructions to operate each particular setting.

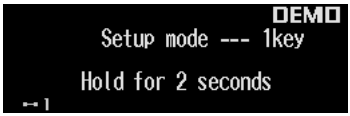
Initial settings menu operation

You can operate the initial settings menu only when the source is off.

1 Press and hold SOURCE to turn the source off.

2 Press and hold ⊷1 to enter the initial settings menu.

- When the source is off, you can check the location of " ⊷**1**" by turning on the feature demo.



Note

Press **BAND/ESC** to cancel the initial settings mode. ▣

Using the reverse mode

If you do not carry out an operation within about 30 seconds, screen indications will start to reverse, and then continue reversing every 10 seconds.
You can turn the reverse mode on or off.

1 With the source turned off, press and hold ⊷1 to select the reverse mode.

2 Press REV to turn the reverse mode on.
"**ON**" appears in the display.

- Press **REV** again to turn the reverse mode off.

▣

Using the feature demo

The feature demo automatically starts when power to this product is switched off while the ignition switch is set to ACC or ON.
You can turn the feature demo on or off.

1 With the source turned off, press and hold 1.

2 Press F.DEMO to select the feature demo mode.

3 Press F.DEMO to turn the feature demo on.
"**ON**" appears in the display.
- Press **F.DEMO** again to turn the feature demo off.

Note

The red lead (ACC) of this product should be connected to a terminal coupled with ignition switch ON/OFF operations. If this is not done, the vehicle battery may be drained.

Switching the auxiliary setting

It is possible to use auxiliary equipment with this product.
Turn the auxiliary setting on when using external equipment connected to this product.

1 With the source turned off, press and hold 1.

2 Press AUX to select the AUX mode.

3 Press AUX to turn AUX on.
"**ON**" appears in the display.
- Press **AUX** again to turn AUX off.

Switching the guide animation setting

Navigation guide animation can be switched on and off. You can also display a still picture.

1 With the source turned off, press and hold 1.

2 Press G.ANI to select the G.ANI mode.

3 Press ◄ or ► to select the desired display.
Press **G.ANI** repeatedly to switch between the following settings:
DYNAMIC — **STATIC**

Note

You can turn the guide animation on and off by pressing ▲ and ▼.

Switching the muting/attenuation setting

This setting controls whether the audio volume is automatically muted or attenuated when voice guidance is given, or when a mute signal has been received from a cellular phone connected to this product.
- Refer to *Using the muting/attenuation and hands free telephoning function* on page 99.

1 With the source turned off, press and hold 1.

2 Press MUTE.S to select the muting/attenuation mode.

3 Press MUTE.S to select the desired setting.
Press **MUTE.S** repeatedly to switch between the following settings:

MUTE (muting)—**ATT** (attenuation)—**NORMAL** (no attenuation)

Selecting the display language

You can change the language setting for displaying function menu and initial settings menu.

1 With the source turned off, press and hold 1.

2 Press M.LAN to select the language selecting mode.

3 Press the corresponding button to select the desired language.

Display	Setting
ENG	English
FRE	French
ITA	Italian
SPA	Spanish
GER	German
DUT	Dutch

Notes

- English is set by default at purchase.
- You can also set a language other than the one shown on the Navigation screen. If you want to change the language displayed for the Navigation screen, refer to *Setting the language for navigation* on page 42.

Setting the FM tuning step

Normally the FM tuning step employed by seek tuning is 50 kHz. When AF or TA is on, the tuning step automatically changes to 100 kHz. It may be preferable to set the tuning step to 50 kHz when AF is on.

1 With the source turned off, press and hold 1.

2 Press NEXT and then press FM step to select the FM tuning step mode.

3 Press the corresponding button to select the desired tuning step.
Pressing **50K** or **100K** will switch the FM tuning step between 50 kHz and 100 kHz while AF or TA is on. The selected FM tuning step will appear in the display.

Note

The tuning step remains at 50 kHz during manual tuning.

Setting the Guide Select

Navigation audio (guidance) can be output from the front speakers. You can select either the left or the right speaker to output from.

1 With the source turned off, press and hold 1.

2 Press NEXT and the press G.MIX to select the Guide Select mode.

3 Press G.MIX repeatedly to select the desired output setting.
LEFT+RIGHT—RIGHT—LEFT

English

Switching the guidance display for intersection

The display can be magnified around an intersection to facilitate navigation (only when the source is turned off).

1 With the source turned off, press and hold 1.

2 Press NEXT and then press N.INT to select the intersection display mode.

3 Press N.INT to turn the enlarged display off.

"**OFF**" appears on the display.

- Press **N.INT** again to turn the enlarged display on.

Setting the rear output and subwoofer controller

This product's rear output (rear speaker leads output and RCA rear output) can be used for full-range speaker (**FULL Preout :FULL**) or subwoofer (**SUB.W**) connection. If you switch the rear output setting to "**SUB.W**", you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp. Initially, the unit is set for rear full-range speaker connection (**FULL Preout :FULL**). When rear output is connected to full range speakers (when "**FULL Preout :FULL**" is selected), you can connect the RCA subwoofer output to a subwoofer. In this case, you can select whether to use the subwoofer controller's (low pass filter, phase) built-in **FULL Preout :SUB.W** or the auxiliary **FULL Preout :FULL**.

1 With the source turned off, press and hold 1.

2 Press NEXT and then press REAR to select the rear output setting mode.

3 Press SW or FULL to select the desired output setting.

Pressing **SW** or **FULL** will switch between "**FULL**" (full-range speaker) and "**SUB.W**" (subwoofer), and that status will be displayed.

- When no subwoofer is connected to the rear speaker lead output, select "**FULL Preout :FULL**".
- When a subwoofer is connected to the rear speaker lead output, select "**SUB.W**".
- When the rear output setting is "**SUB.W**", you cannot change the subwoofer controller (Step 4).

4 Press ◀ or ▶ to switch the subwoofer output or nonfading output (full-range RCA output).

Pressing ◀ or ▶ will switch between "**FULL Preout :SUB.W**" and "**FULL Preout :FULL**" and that status will be displayed.

- When adjusting the subwoofer sound by using an external amplifier, set to "**FULL Preout :FULL**".
- When adjusting the subwoofer sound by using this product, set to "**FULL Preout :SUB.W**".

Notes

- Even if you change this setting, there is no output unless you turn the nonfading output (refer to *Using nonfading output* on page 88) or subwoofer output (refer to *Using subwoofer output* on page 88) in the audio menu on.
- If you change the subwoofer controller, subwoofer output and nonfading output in the audio menu return to the factory settings.

Selecting the illumination colour

This product is equipped with two illumination colours, green and red. You can select the desired illumination colour.

1 With the source turned off, press and hold 1.

2 Press NEXT and then press D.ILM to select the illumination colour.

3 Press D.ILM to select the desired illumination colour.

- Each press of **D.ILM** switches the illumination colour between red or green and that status will be displayed (e.g., **GREEN**).

Switching the auto PI seek

This product can automatically search for a different station with the same programme, even during preset recall.

1 With the source turned off, press and hold 1.

2 Press NEXT and then press A.PI to select the auto PI seek mode.

3 Press A.PI to turn the auto PI seek on.

"**ON**" appears in the display.

- Press **A.PI** again to turn the auto PI seek off.

Switching the hands free telephoning

You can turn the hands free telephoning on or off in accordance with the connection of the cellular telephone you use. When using the hands free telephone unit (sold separately), turn the hands free telephoning on. This product automatically changes to the telephone mode and mutes the audio volume and the navigation guidance volume, when a call is made or received.
Refer to *Hands free telephoning function* on page 99.

1 With the source turned off, press and hold 1.

2 Press NEXT until "TEL 1" appears.

3 Press TEL 1 to select the hands free setting mode.

4 Press TEL 1 to turn the hands free telephoning on.

"**ON**" appears in the display.

- Press **TEL 1** again to turn the hands free telephoning off.

Switching the telephone standby

If you want to use the hands free telephone unit without playing other audio source of this product, activate the telephone standby mode.

- When the hands free telephoning is on, you can operate this function.

Refer to *Hands free telephoning function* on page 99.

1 With the source turned off, press and hold 1.

2 Press NEXT until "TEL 2" appears.

3 Press TEL 2 to select the telephone standby setting mode.

4 Press TEL 2 to turn the telephone standby on.

"**ON**" appears in the display.

■ Press **TEL 2** again to turn the telephone standby off.

Switching the Ever-scroll

When Ever-scroll is set to "**ON**", text information of the CD scrolls continuously in the display. Set to "**OFF**" if you prefer the information to scroll just once.

1 With the source turned off, press and hold 1.

2 Press NEXT until "SCROLL" appears.

3 Press SCROLL to select Ever-scroll.

4 Press SCROLL to turn the Ever-scroll function on.

"**ON**" appears in the display.

■ Press **SCROLL** again to turn the Ever-scroll off.

Attenuating audio volume

The attenuator lets you lower the volume level quickly (by about 90%).

1 Press NEXT to until "ATT" appears.

2 Press ATT to turn the attenuator on.
"**ATT**" appears in the display.
- Press **ATT** again to turn the attenuator off and return to the original volume level.

Displaying the clock

You can turn the time display on or off.

Setting the time display on or off

1 Press NEXT until "CLK" appears.

2 Press CLK and then press ON/OFF to turn the time display on.
The light illuminates.
- Press **ON/OFF** again to turn the time display off.
- If you press **BAND/ESC** and exit the time mode, the time display will appear instead of the source name.

Time Display

- The time display will also appear on the navigation screen during route guidance. Refer to *Screen during route guidance* on page 32.

Note

If you do not operate the function within about 30 seconds, the display is automatically returned.

Off clock display

When the time display is turned on, the calendar display appears with the time display when sources and the feature demo are off.

Adjusting the brightness

Display brightness adjustment lets you adjust the display for easier viewing when lighting conditions change.

1 Press NEXT until "C.MENU" appears.

2 Press C.MENU and then press BRGHT to select the brightness mode.

3 Press ◀ or ▶ to adjust the brightness.
Each press of ◀ or ▶ increases or decreases the brightness.
- "**00**" – "**31**" is displayed as the brightness is increased or decreased.

Switching the dimmer setting

To prevent the display from being too bright at night, the display is automatically dimmed when the vehicle's headlights are turned on. You can switch the dimmer on or off.

1 Press NEXT until "C.MENU" appears.

2 Press C.MENU and then press DMMER to select the dimmer mode.

3 Press DMMER to turn the dimmer on.
"**ON**" appears on the display.
■ Press **DMMER** again to turn the dimmer off. ▣

Selecting the wall paper pattern

There are three patterns to choose from.

1 Press NEXT until "C.MENU" appears.

2 Press C.MENU and then press PTRN to select the wall paper pattern mode.

3 Press a corresponding button to select the desired pattern. ▣

Using the AUX source

An IP-BUS-RCA Interconnector such as the CD-RB20 or CD-RB10 (sold separately) enables you to connect this product to auxiliary equipment featuring RCA output. For more details, refer to the IP-BUS-RCA Interconnectors Owner's manual.

Selecting AUX as the source

● **Press SOURCE until "AUX" appears in the display.**
■ If the auxiliary setting is not turned on, AUX cannot be selected. For more details, see *Switching the auxiliary setting* on page 92.

Setting the AUX title

The title displayed for the AUX source can be changed.

1 After you have selected AUX as the source, press FUNC.

2 Press TTLin to select the AUX title input mode.
Refer to *Entering disc titles* on page 60, and perform procedures 4 to 7 in the same way.

Note

Even if you do not press **TTLin** you can enter the title. In this case, you will not be able to change the character types. ▣

Using different entertainment displays

You can enjoy entertainment displays while listening to each sound source.

1 Press ENT.

2 Press the corresponding button to select the desired display.

Display	Setting
E.CLK	Entertainment clock
BGP 1	Background picture 1
BGP 2	Background picture 2
BGP 3	Background picture 3
BGP 4	Background picture 4
OFF	Entertainment clock display off

▣

English

Using the muting/ attenuation and hands free telephoning function

Navigation guidance muting/ attenuation function

When the navigation outputs the guidance voice, the audio volume is muted or attenuated.

— When "**MUTE**" or "**ATT**" is selected in the mute setting. (Refer to *Switching the muting/attenuation setting* on page 92.)
— When "**OFF**" is selected in the hands free telephoning setting. (Refer to *Switching the hands free telephoning* on page 95.)

If "**ON**" is selected in the hands free telephoning setting, both the audio volume and the navigation guidance voice are muted or attenuated when a call is made or received.

Muting/attenuation function

When a mute signal has been received from the yellow/black lead connected to this product, the audio volume is muted or attenuated. This function is activated in the following condition:

— When "**MUTE**" or "**ATT**" is selected in the mute setting. (Refer to *Switching the muting/attenuation setting* on page 92.)
— When "**OFF**" is selected in the hands free telephoning setting. (Refer to *Switching the hands free telephoning* on page 95.)

- The sound is turned off, "**MUTE**" is displayed and no audio adjustments are possible.
- The sound is attenuated, "**ATT**" is displayed and no audio adjustments, except volume control, are possible.
- Operation returns to normal when the phone connection is ended.
- The guidance voice of navigation isn't muted or attenuated when a call is made or received.

Hands free telephoning function

When a call is made or received using a hands free telephone unit, the source changes to the TEL source and sound from this system is muted automatically. The voice of the person you talk to comes from the speakers. This function is activated in the following condition:

— "**ON**" is selected in the hands free telephoning setting. (Refer to *Switching the hands free telephoning* on page 95.)

- When a call is made or received, no source change is possible.
- When a call is made or received, only two adjustments (volume and fader/balance) are possible.
- Operation returns to normal when the phone connection is ended.
- Telephone standby can be selected as a source when "**ON**" is selected in the telephone standby setting. (Refer to *Switching the telephone standby* on page 96.)
- Only when "**TEL 1**" is turned on, the guidance voice of navigation will be muted or attenuated.
- When "**TEL 1**" is turned on, neither "**MUTE**" nor "**ATT**" is displayed. ▣

Understanding built-in CD player error messages

When problems occur during CD play an error message may appear on the display. If an error message appears on the display refer to the table below to see what the problem is and the suggested method of correcting the problem. If the error cannot be corrected, contact your dealer or your nearest Pioneer Service Centre.

Message	Cause	Action
ERROR-11, 12, 17, 30	Dirty disc	Clean disc.
ERROR-11, 12, 17, 30	Scratched disc	Replace disc.
ERROR-10, 11, 12, 17, 30, A0	Electrical or mechanical	Turn the ignition ON and OFF, or switch to a different source, then back to the CD player.
ERROR-22, 23	The CD format cannot be played back	Replace disc.
ERROR-44	All tracks are skip tracks	Replace disc.

CD player and care

- Use only CDs that have either of the two Compact Disc Digital Audio marks as shown below.

- Use only normal, round CDs. If you insert irregular, non-round, shaped CDs they may jam in the CD player or not play properly.

- Check all CDs for cracks, scratches or warped discs before playing. CDs that have cracks, scratches or are warped may not play properly. Do not use such discs.
- Avoid touching the recorded (non-printed side) surface when handling the disc.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and do not expose the discs to high temperatures.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean dirt from a CD, wipe the disc with a soft cloth outward from the centre of the disc.

- If the heater is used in cold weather, moisture may form on components inside the CD player. Condensation may cause the CD player to not operate properly. If you think that condensation is a problem turn off the CD player for an hour or so to allow the CD player to dry out and wipe any damp discs with a soft cloth to remove the moisture.
- Road shocks may interrupt CD playback.

CD-R/CD-RW discs

- When CD-R/CD-RW discs are used, playback is possible only for discs which have been finalized.
- It may not be possible to play back CD-R/CD-RW discs recorded on a music CD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of this product.
- Playback of discs recorded on a personal computer may not be possible, depending on the application settings and the environment. Please record with the correct format. (For details, contact the manufacturer of the application.)
- Playback of CD-R/CD-RW discs may become impossible in case of direct exposure to sunlight, high temperatures, or the storage conditions in the vehicle.
- Titles and other text information recorded on a CD-R/CD-RW disc may not be displayed by this product (in the case of audio data (CD-DA)).
- This product conforms to the track skip function of the CD-R/CD-RW disc. The tracks containing the track skip information are skipped automatically (in case of audio data (CD-DA)).
- If you insert a CD-RW disc into this product, time to playback will be longer than when you insert a conventional CD or CD-R disc.
- Read the precautions with CD-R/CD-RW discs before using them. ▣

MP3, WMA and WAV files

- MP3 is short for MPEG Audio Layer 3 and refers to an audio compression technology standard.
- WMA is short for Windows Media™ Audio and refers to an audio compression technology that is developed by Microsoft Corporation. WMA data can be encoded by using Windows Media Player version 7 or later.
- WAV is short for waveform. It is a standard audio file format for Windows.
- With some applications used to encode WMA files, this product may not operate correctly.
- With some applications used to encode WMA files, album names and other text information may not be correctly displayed.
- This product allows playback of MP3/WMA/WAV files on CD-ROM, CD-R and CD-RW discs. Disc recordings compatible with level 1 and level 2 of ISO9660 and with the Romeo and Joliet file system can be played back.
- It is possible to play back multi-session compatible recorded discs.
- MP3/WMA/WAV files are not compatible with packet write data transfer.
- The maximum number of characters which can be displayed for a file name, including the extension (.mp3, .wma or .wav), is 64 characters from the first character.
- The maximum number of characters which can be displayed for a folder name is 64 characters.
- In case of files recorded according to the Romeo and Joliet file system, only the first 64 characters can be displayed.
- When playing discs with MP3/WMA/WAV files and audio data (CD-DA) such as CD-EXTRA and MIXED-MODE CDs, both types can be played only by switching mode between MP3/WMA/WAV and CD-DA.
- The folder selection sequence for playback and other operations becomes the writing sequence used by the writing software. For this reason, the expected sequence at the time of playback may not coincide with the actual playback sequence. However, there also is some writing software which permits setting of the playback order.

- Some audio CDs contain tracks that merge into one another without a pause. When these discs are converted to MP3/WMA/WAV files and burned to a CD-R/CD-RW/CD-ROM, the files will be played back on this player with a short pause between each one, regardless of the length of the pause between tracks on the original audio CD.

Important

- When naming an MP3/WMA/WAV file, add the corresponding filename extension (.mp3, .wma or .wav).
- This product plays back files with the filename extension (.mp3, .wma or .wav) as an MP3/WMA/WAV file. To prevent noise and malfunctions, do not use these extensions for files other than MP3/WMA/WAV files.

MP3 additional information

- Files are compatible with the ID3 Tag Ver. 1.0, 1.1, 2.2, 2.3 and 2.4 formats for display of album (disc title), track (track title), artist (track artist) and comments. Ver. 2.x of ID3 Tag is given priority when both Ver. 1.x and Ver. 2.x exist.
- The emphasis function is valid only when MP3 files of 32, 44.1 and 48 kHz frequencies are played back. (16, 22.05, 24, 32, 44.1, 48 kHz sampling frequencies can be played back.)
- There is no m3u playlist compatibility.
- There is no compatibility with the MP3i (MP3 interactive) or mp3 PRO format.
- The sound quality of MP3 files generally becomes better with an increased bit rate. This product can play recordings with bit rates from 8 kbps to 320 kbps, but in order to be able to enjoy sound of a certain quality, we recommend using only discs recorded with a bit rate of at least 128 kbps.

WMA additional information

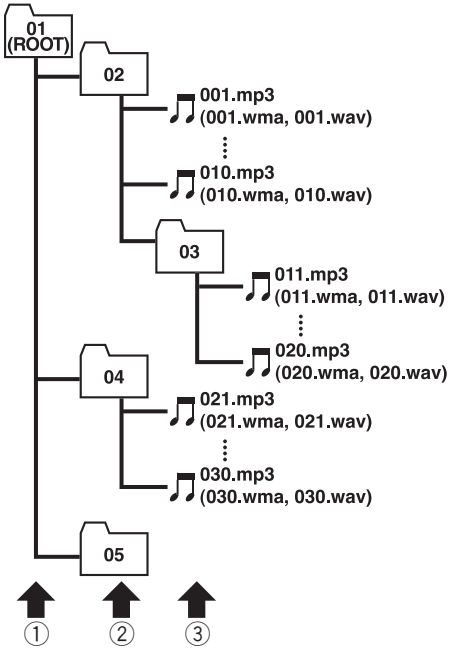
- This product plays back WMA files encoded by Windows Media Player version 7.7.1, 8 and 9.
- You can only play back WMA files in the frequencies 32, 44.1 and 48 kHz.
- The sound quality of WMA files generally becomes better with an increased bit rate. This product can play recordings with bit rates from 48 kbps to 320 kbps (CBR) or from 48 kbps to 384 kbps (VBR), but in order to be able to enjoy sound of a certain quality, we recommend using discs recorded with a higher bit rate.
- This product doesn't support the following formats.
  - Windows Media Audio 9 Professional (5.1ch)
  - Windows Media Audio 9 Lossless
  - Windows Media Audio 9 Voice

WAV additional information

- This product plays back WAV files encoded in Linear PCM (LPCM) format or MS ADPCM format.
- You can only play back WAV files in the frequencies 16, 22.05, 24, 32, 44.1 and 48 kHz (LPCM), or 22.05 and 44.1 kHz (MS ADPCM). The sampling frequency shown in the display may be rounded.
- The sound quality of WAV files generally becomes better with a larger number of quantization bits. This product can play recordings with 8 and 16 (LPCM) or 4 (MS ADPCM) quantization bits, but in order to be able to enjoy sound of a certain quality, we recommend using discs recorded with the larger number of quantization bits. ▣

About folders and MP3/ WMA/WAV files

- An outline of a CD-ROM with MP3/WMA/ WAV files on it is shown below. Subfolders are shown as folders in the folder currently selected.



① First level
② Second level
③ Third level

Notes

- This product assigns folder numbers. The user can not assign folder numbers.
- It is not possible to check folders that do not include MP3/WMA/WAV files. (These folders will be skipped without displaying the folder number.)
- MP3/WMA/WAV files in up to 8 tiers of folders can be played back. However, there is a delay in the start of playback on discs with numerous tiers. For this reason we recommend creating discs with no more than 2 tiers.
- It is possible to play back up to 99 folders on one disc. ▣

Terms

Bit rate

This expresses data volume per second, or bps units (bits per second). The higher the rate, the more information is available to reproduce the sound. Using the same encoding method (such as MP3), the higher the rate, the better the sound.

ID3 tag

This is a method of embedding track-related information in an MP3 file. This embedded information can include the track title, the artist's name, the album title, the music genre, the year of production, comments and other data. The contents can be freely edited using software with ID3 Tag editing functions. Although the tags are restricted as to the number of characters, the information can be viewed when the track is played back.

ISO9660 format

This is the international standard for the format logic of CD-ROM folders and files. For the ISO9660 format, there are regulations for the following two levels.

Level 1:

The file name is in 8.3 format (the name consists of up to 8 characters, half-byte English capital letters and half-byte numerals and the "_" sign, with a file-extension of three characters.)

Level 2:

The file name can have up to 31 characters (including the separation mark "." and a file extension). Each folder contains less than 8 hierarchies.

Extended formats

Joliet:
File names can have up to 64 characters.
Romeo:
File names can have up to 128 characters.

Linear PCM (LPCM)/Pulse code modulation

This stands for linear pulse code modulation, which is the signal recording system used for music CDs and DVDs.

m3u

Playlists created using the "WINAMP" software have a playlist file extension (.m3u).

MP3

MP3 is short for MPEG Audio Layer 3. It is an audio compression standard set by a working group (MPEG) of the ISO (International Standards Organization). MP3 is able to compress audio data to about 1/10th the level of a conventional disc.

MS ADPCM

This stands for Microsoft adaptive differential pulse code modulation, which is the signal recording system used for the multimedia software of Microsoft Corporation.

Multi-session

Multi-session is a recording method that allows additional data to be recorded later. When recording data on a CD-ROM, CD-R or CD-RW, etc., all data from beginning to end is treated as a single unit or session. Multi-session is a method of recording more than 2 sessions in one disc.

Number of quantisation bits

The number of quantisation bits is one factor in the overall sound quality; the higher the "bit-depth", the better the sound quality. However, increasing the bit-depth also increases the amount of data and therefore storage space required.

Packet write

This is a general term for a method of writing on CD-R, etc. at the time required for a file,

just as is done with files on floppy or hard discs.

VBR

VBR is short for variable bit rate. Generally speaking CBR (constant bit rate) is more widely used. But to flexibly adjust the bit rate according to the needs of audio compression, it is possible to achieve compression priorities sound quality.

WAV

WAV is short for waveform. It is a standard audio file format for Windows®.

WMA

WMA is short for Windows Media Audio and refers to an audio compression technology that is developed by Microsoft Corporation. WMA data can be encoded by using Windows Media Player version 7 or later.
Microsoft, Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries. ▣

About traffic information (RDS-TMC)

- Because the information is updated only periodically, it may take time to collect all the information.
- Not all RDS stations provide traffic information.
- Traffic Information is not taken into account in calculating estimated time of arrival or travel time for your destination.
- This product may not be able to receive traffic information in some areas.

- Pioneer does not bear responsibility for the accuracy of the information transmitted.
- Pioneer does not bear responsibility for changes to information services provided by broadcasting stations or by related companies, such as cancellation of the services or changing to pay-services. Also, we do not accept return of the product for this reason.

▣

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France:

Sourcé: Géoroùte ® IGN France & BD Carto ® IGN France

Germany:

Die Grundlagendaten wurden mit Genehmigung der zuständigen Behörden entnommen.

Great Britain:

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Italy:

La Banca Dati Italiana é stata prodotta usando quale riferimento anche cartographia numerica ed al tratto prodotta e fornita dalla Regione Toscana.

Portugal:

"Source: IgeoE-Portugal"

Spain:

Información geográfica propiedad del CNIG.

Sweden:

Based upon electronic data © National Land Survey Sweden.

Switzerland:

Topografische Grundlage: © Bundesamt für Landestopographie.

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English

Specifications

General

Power source ..... 14.4 V DC (10.8 – 15.1 V allowable)
Earthing system ..... Negative type
Max. current consumption ..... 10.0 A
Dimensions (W × H × D):
Chassis (DIN) ..... 178 × 50 × 157 mm
Nose ..... 188 × 58 × 20 mm
Weight ..... 1.6 kg

Navigation

(GPS receiver)
System ..... L1, C/Acode GPS SPS (Standard Positioning Service)
Reception system ..... 12-channel multi-channel reception system.
Reception frequency ..... 1,575.42 MHz
Sensitivity ..... –130 dbm
Position update frequency .. Approx. once per second
(Common)
Maximum current consumption ..... 10 A
Power source ..... DC 14.4 V (10.8 – 15.1 V allowable)
Earth type ..... Negative type
(GPS aerial)
Aerial ..... Micro strip flat aerial/right-handed helical polarizaton
Aerial cable ..... 5.0 m
Dimensions (W × H × D) ... 34 (W) × 36 (H) × 13 (D) mm
Weight ..... 104 g

Audio

Maximum power output ..... 50 W × 4
50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)
Continuous power output ... 27 W × 4 (DIN 45324, +B=14.4 V)
Load impedance ..... 4 Ω (4 – 8 Ω [2 Ω for 1 ch] allowable)
Preout max output level/output impedance ..... 2.2 V/1 kΩ
Equaliser (3-Band Parametric Equaliser):
Low
Frequency ..... 40/80/100/160 Hz
Q Factor ..... 0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain ..... ±12dB
Mid
Frequency ..... 200/500/1k/2k Hz
Q Factor ..... 0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain ..... ±12dB
High
Frequency ..... 3.15k/8k/10k/12.5k Hz
Q Factor ..... 0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain ..... ±12dB
Loudness contour
Low ..... +3.5 dB (100 Hz), +3 dB (10 kHz)
Mid ..... +10 dB (100 Hz), +6.5 dB (10 kHz)
High ..... +11 dB (100 Hz), +11 dB (10 kHz)
(volume: –30 dB)
Tone controls:
Bass
Frequency ..... 40/63/100/160 Hz
Gain ..... ±12dB
Treble
Frequency ..... 2.5k/4k/6.3k/10k Hz
Gain ..... ±12dB
HPF:
Frequency ..... 50/80/125 Hz
Slope ..... –12 dB/oct
Subwoofer:
Frequency ..... 50/80/125 Hz
Slope ..... –18 dB/oct
Gain ..... ±12dB
Phase ..... Normal/Reverse

CD player

System ..... Compact disc audio system
Usable discs ..... Compact disc
Signal format:
Sampling frequency .... 44.1 kHz
Number of quantization bits ..... 16; linear
Frequency characteristics .. 5 – 20,000 Hz (±1 dB)
Signal-to-noise ratio ..... 94 dB (1 kHz) (IEC-A network)
Dynamic range ..... 92 dB (1 kHz)
Number of channels ..... 2 (stereo)
MP3 decoding format ..... MPEG-1 & 2 Audio Layer 3
WMA decoding format ..... Ver. 7, 7.1, 8, 9
WAV signal format ..... Linear PCM & MS ADPCM

FM tuner

Frequency range ..... 87.5 – 108.0 MHz
Usable sensitivity ..... 8 dBf (0.7 μV/75 Ω, mono, S/N: 30 dB)

50 dB quieting sensitivity.... 10 dBf (0.9 μV/75 Ω, mono)
Signal-to-noise ratio ..... 75 dB (IEC-A network)
Distortion ..... 0.3 % (at 65 dBf, 1 kHz, stereo)
0.1 % (at 65 dBf, 1 kHz, mono)
Frequency response..... 30 – 15,000 Hz (±3 dB)
Stereo separation ..... 45 dB (at 65 dBf, 1 kHz)
Selectivity ..... 80 dB (±200 kHz)

MW tuner

Frequency range..... 531 – 1,602 kHz (9 kHz)
Usable sensitivity..... 18 μV (S/N: 20 dB)
Signal-to-noise ratio ..... 65 dB (IEC-A network)

LW tuner

Frequency range..... 153 – 281 kHz
Usable sensitivity..... 30 μV (S/N: 20 dB)
Signal-to-noise ratio ..... 65 dB (IEC-A network)

Note

Specifications and the design are subject to possible modifications without notice due to improvements.

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